Beijing Guoguang Xingda TechnologyCo.,Ltd. 北京国光兴达科技有限公司

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CONTENT

Chapter I : Introduction3
Chapter II: Outdoor Network cabinet4-20
Chapter III: Indoor Network cabinet21-27
Chapter IV: Power supply system······28-47
Chapter V: Rectifier module and controller ·······48-63
Chapter VI: Industrial UPS·······64-68
Chapter VII: Lithium-ion battery69-71
Chapter VIII: Lead acid batteries ·······72-73
Chapter IX: Brand agency 74



Chapter I: Introduction

Shenzhen Xingda Shidai Technology Co., LTD., founded in 2021, is located in Shenzhen, China. Our headquarter is set up in Beijing, and has cooperative organizations throughout the country.

Our Solutions

We are a power specialist that develops, manufactures, sells and distributes cutting-edge power solutions and services.

Our solutions provide power and backup power required for efficient and stak operation of essential infrasture that makes the world work, such as Telecom Power Utilities, Data Centers, Railway & Metro, Marine & Offshore and Rural Electrification.

Our Vision

Our expertise lies in power conversion, i.e. the process of converting one type of current, i.e. AC, to another, DC, and in the process adjusting the voltage, making it suitable for specific delicate electronic equipment. This core functionality is combined with battery backup, distribution and advanced monitoring and control in complete power systems for industrial applications where the efficiency and reliability of power supply is business critical.

Our Expertise

Powering a greener tomorrow

The concept of "green" is becoming more and more important in the world at large. The consumption of power contributes to climate change – therefore, high efficiency power conversion with minimum loss is key to a greener tomorrow. As a power solution designer and manufacturer, we can make an important contribution in our field.s.

Our solutions provide power and backup power required for efficient and stable operation of essential infrasture that makes the world work, such as Telecom, Power Utilities, Data Centers, Railway & Metro, Marine & Offshore and Rural Electrification.



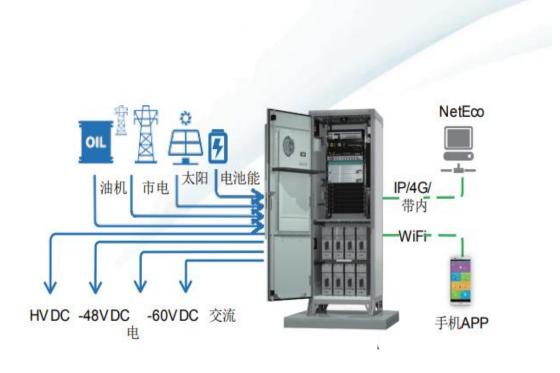
ChapterI: Outdoor Network cabinet

Outdoor ODC cabinet(Mini-shelter)



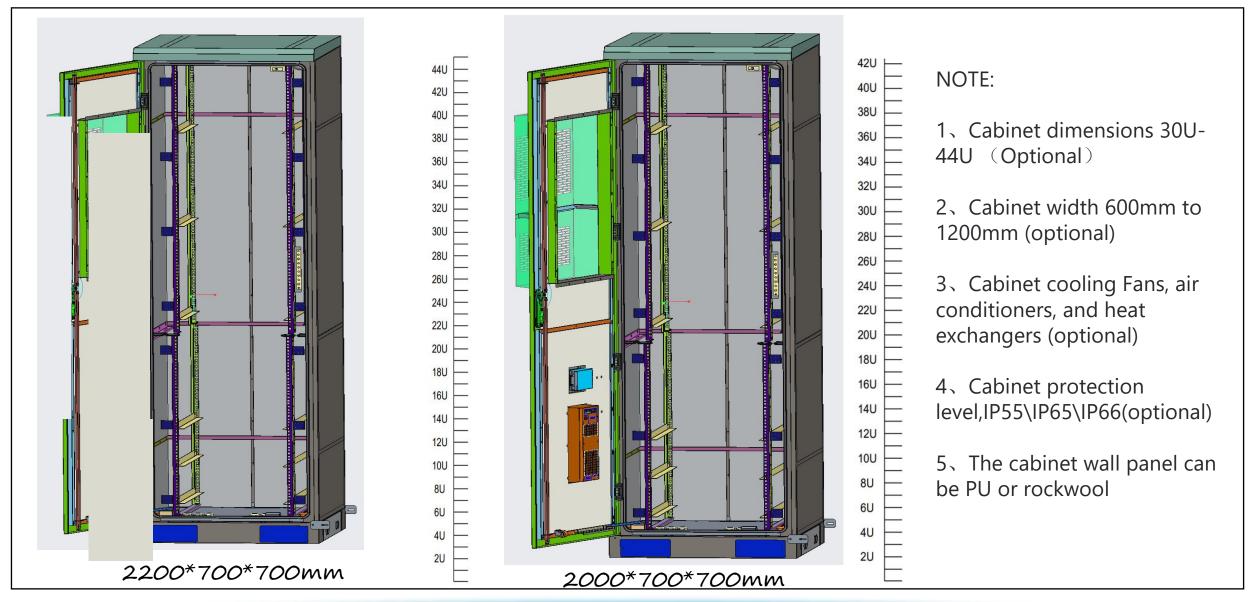
The new generation communication energy solution is famous for its simplicity, Intelligent and efficient features help carriers achieve simple and complete network deployment Network energy saving, efficient operation and smooth future evolution.

The solution is highly integrated with power supply system, temperature control system and station monitoring The system and reception system provide safe and reliable energy supply for the main equipment And the working environment.





ODC cabinets can be customized according to customer requirements





Xingda can provide for customers

The cost competitive price in industry, save building cost of station

- The same price, the cost competitive price in industry
- Automated mold production, first-grade quality

Customized rapidly, solve building-station problem

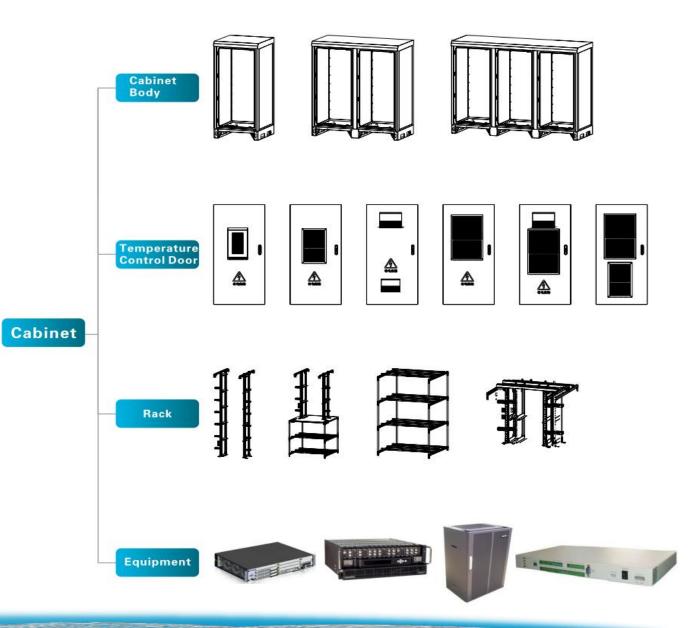
- Modular architecture design
- Component reuse rate is as high as 90%
- Participate in china mobile, china unicom mini room standard drafting,
 Rich experience in outdoor integration station and system design

Large scale and quick supply, help to win 4G

- •5 Days delivery for standard product
- Compete mold line production

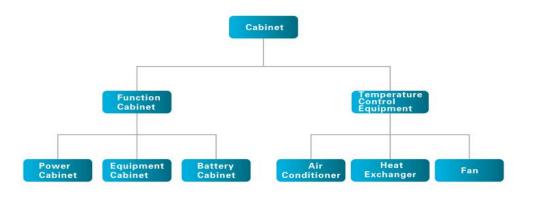
Provide end-to-end product outsourcing service, complementary advantages and win-win cooperation

- Provide downstream design, platform, product manufacture, product service
- End-to-end cabinet solution, product support, bidding support





Classification of cabinet







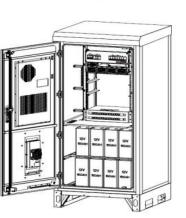




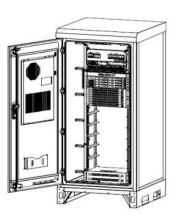








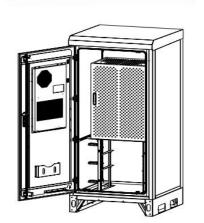




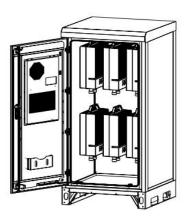
Battery Cabinet



1 Unit (Outdoor Macro Station)



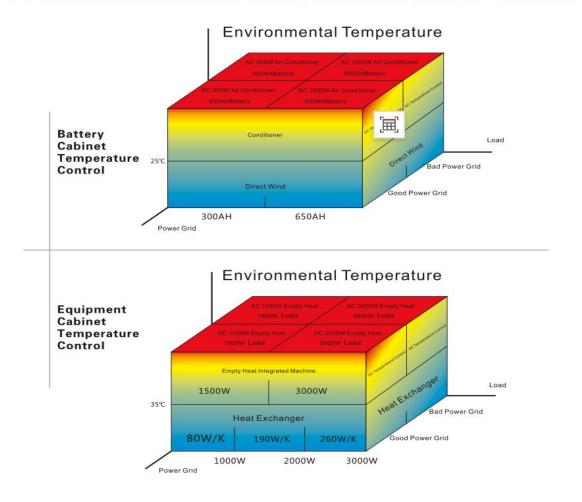
1 Unit (RRU)





Temperature control panorama

Based on Subdivision Temperature Control of Environmental Temperature, Grid and Load



	Temperature Control Solution	Power	Cooling Capacity	Heat Dissipation Capacity	сор	Environmental Temperature	Inner Cabinet Temperature	MTBF(h)
Active Temperature Control	TEC(IP55)	300W	200W	/	0.7	<40°C	<30℃	2,500,000
	PC500(IP55)	200W	500W	1	2.5	<55°C	<30℃	1,300,000
	PC500D(IP55)	250W	500W	1	2	<55°C	<30℃	1,300,000
	IP34Direct Wind (RRU Cabinet)	50W	2500W	250W/K	50	<40°C	Ta+3℃	2,920,000
	IP55Direct Wind (Equipment Cabinet)	50W	1500W	150W/K	30	<40°C	Ta+3℃	2,920,000
Passive Temperature Control	HX08(IP55)	50W	1000W	80W/K	7	<40°C	Ta+10°C	2,920,000
	HX20(IP55)	130W	2000W	200W/K	12	<40°C	Ta+10°C	2,920,000
	HX26(IP55)	260W	3000W	260W/K	12	<40°C	Ta+10°C	2,190,000
	AH1500 (IP55)	620W	1500W	75W/K	2~15	<55℃	<40℃	1,300,000
Intelligent Temperature Control	AH3000 (IP55)	850W	3000W	120W/K	2~15	<55°C	<40°C	1,300,000
	AH1500D(IP55)	560W	1500W	80W/K	2~15	<55°C	<40℃	1,300,000
	AH3000D(IP55)	1050W	3000W	120W/K	2~15	<55°C	<40℃	1,300,000







Conditioner



TEC Conditioner



Vault Door

▶ Station Anti-theft

Site Anti-theft Active Anti-theft Passive Anti-theft Cabinet Without Door Switch Guard **Exposed Screw** Anti-theft Fence nfrared Remote Sensing The Heaven and Earth Three Point Anti-theft ound and Light Alarm Vault Door Vibration Alarm Video Monitor

External Anti-Theft Fence

Built-in Anti-theft Fence

Station Monitor

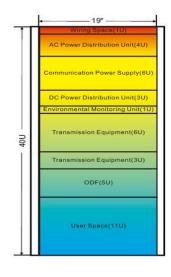


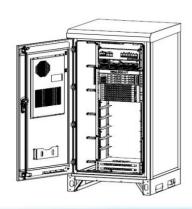


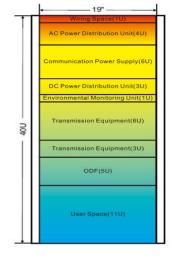
Equipment cabinet(40U)

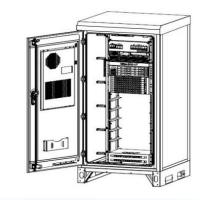
1.8M Equipment Cabinet

Serial Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1800mm(Height)
	Outer Size of Cabinet	905mm(Width)*1180mm(Depth)*2105mm(Height)
	Covering Area	905mm(Width)*905mm(Depth)
	Height of Base	200mm
	Weight	120kg (Excluding the equipment and battery)
	User Space	40U
	Framematerial	Galvanized Steel Sheet
	Wallboard Material	Pre-painted Galvanized Steel Sandwich Board: Color Steel +Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, canmatch padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Ф 50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	- 40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	PC1500
	PC1500Power	600W @L35/L35
	PC1500Cooling Capacity	1500W @L35/L35
	Heater Power Consumption (optional)	1000W
3	Other Information	
	Lighting (optional)	DC-48V LED Light
4	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015









1.8M Equipment Cabinet

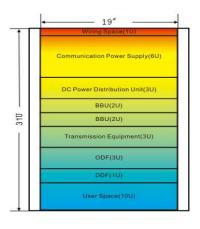
Serial Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1800mm(Height)
	Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*2105mm(Height)
	Covering Area	905mm(Width)*905mm(Depth)
	Height and Weight of Base	200mm
	Weight	108kg (Excluding the equipment and battery)
	User Space	40U
	Framework	Galvanized Steel Sheet
	Wallboard Material	Color Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	The Heaven and Earth Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Φ 50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	- 40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	HX08
	HX08 Power	70W
	HX08 Heat Transfer coefficient	80W/K
	Heater Power Consumption (optional)	400W
3	Other Information	
	Lighting (optional)	DC-48V LED Light
4	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015
- 1		

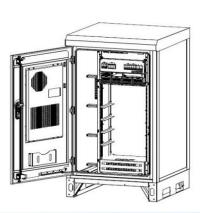


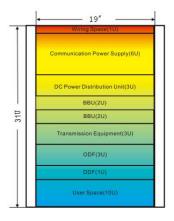
Equipment cabinet(31U)

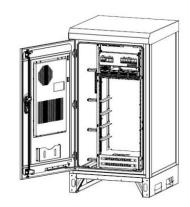
1.4M Equipment Cabinet

Serial Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1400mm(Height)
	Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*1705mm(Height)
	Covering Area	905mm(Width)*905mm(Depth)
	Height Base	200mm
	Weight	95kg (Excluding the equipment and battery)
	User Space	31U
	Framematerial	Galvanized Steel Sheet
	Wallboard Material	Pre-painted Galvanized Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, canmatch padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Ф 50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	-40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	PC1500
	PC1500Power	600W @L35/L35
	PC1500Cooling Capacity	1500W @L35/L35
	Heater Power Consumption (optional)	1000W
3	Other Information	
	Lighting (optional)	DC-48V LED Light
4	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015









1.4M Equipment Cabinet

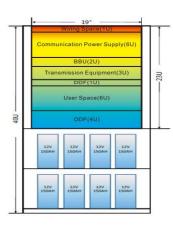
erial lumber	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1400mm(Height)
	Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*1705mm(Height)
	Covering Area	905mm(Width)*905mm(Depth)
	Height and Weight of Base	200mm
	Weight	85kg (Excluding the equipment and battery)
	User Space	31U
	Framework	Galvanized Steel Sheet
	Wallboard Material	Color Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	The Heaven and Earth Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Ф 50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	- 40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	HX08
	HX08 Power	70W
	HX08 Heat Transfer coefficient	80W/K
	Heater Power Consumption (optional)	400W
3	Other Information	
	Lighting (optional)	DC-48V LED Light
4	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015

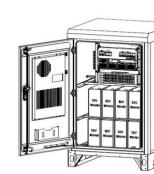


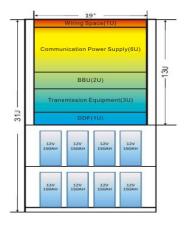
Equipment cabinet(31-40U)

1.8M Power Cabinet

1 Basic Information Inner Size of Cabinet 800mm(Width)*800mm(Depth)*1800mm(Height) Outer Size of Cabinet 905mm(Width)*1080mm(Depth)*2105mm(Height) Covering Area 905mm(Width)*905mm(Depth) Height of Base 200mm Weight 125kg (Excluding the equipment and battery) User Space 40U Framematerial Galvanized Steel Sheet	Serial Number	Project	Parameter
Outer Size of Cabinet Covering Area Posmm(Width)*1080mm(Depth)*2105mm(Height) Outer Space Weight User Space Wallboard Material Wall Thickness Lock Protection Grade Delivery Mode Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet PC1500Power PC1500Power PC300 Power PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Groups Battery Groups Battery Groups Battery Groups Battery Groups Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Cabinet Certification Pass TLC Certificate Posmm (Depth)*2105mm(Height) 905mm(Width)*905mm(Depth)*2105mm(Height) 905mm(Width)*905mm(Depth)*2105mm(Height) 905mm(Width)*905mm(Depth)*2105mm(Height) 905mm(Width)*905mm(Depth)*2105mm(Depth)	-	Basic information	
Covering Area Height of Base Weight User Space Framematerial Wallboard Material Wall Thickness Lock Protection Grade Specifications of Bottom Wiring Hole Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet PC1500Cooling Capacity Heater Power Consumption (optional) Battery Gabinet Temperature Control PC300 Cooling Capacity Heater Power Consumption (optional) Battery Groups Battery Groups Battery Groups 4 Other Information Lighting (optional) Certification & Standard Product Certification PC48V LED Light Certification & Standard Product Certification PC45Certificate PD5Smm(Width)*995mm(Depth) 200mm 125kg (Excluding the equipment and battery) 40U Galvanized Steel Sheet Pre-painted Galvanized Steel Sandwich Board: Colo Steel + Polystyrene (Polyurethane is optional) B45mm Pre-painted Galvanized Steel Sheet Pre-painted Galvanized Steel Sandard Lock Core can change by itself, can match paid ste		Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1800mm(Height)
Height of Base Weight User Space Framematerial Wallboard Material Wall Thickness Lock Pre-painted Galvanized Steel Sandwich Board: Colo Steel + Polystyrene (Polyurethane is optional) Wall Thickness Lock Protection Grade Protection Grade Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Power PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Specifications Battery Specifications Battery Gapacity Battery G		Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*2105mm(Height)
Weight User Space Framematerial Wallboard Material Wall Thickness Lock Pre-painted Galvanized Steel Sandwich Board: Colo Steel + Polystyrene (Polyurethane is optional) Wall Thickness Lock Varietia Protection Grade Specifications of Bottom Wiring Hole Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet Equipment Cabinet Temperature Control PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Power PC300 Power PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Specifications Battery Information Sattery Specifications Battery Specifications Battery Gapacity Battery Capacity Battery Gapacity Battery G		Covering Area	905mm(Width)*905mm(Depth)
User Space Framematerial Framematerial Wallboard Material Wall Thickness Lock Lock Protection Grade Protection Grade Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Gabinet Temperature Control PC300 Pc300 Cooling Capacity Heater Power Consumption (optional) Battery Gapacity Battery Gapaci		Height of Base	200mm
Framematerial Wallboard Material Wall Thickness Lock Vall Thickness Lock Protection Grade Specifications of Bottom Wiring Hole Cabinet Storage Temperature Relative Humidity of Outer Cabinet PC1500Power PC1500Power PC300Power PC300Power PC300Power PC300Cooling Capacity Heater Power Consumption (optional) Battery Capining Capacity Heater Power Consumption (optional) Battery Specifications Battery Specifications Battery Gapacity Battery Groups 4 Other Information Lighting (optional) 5 Certification Pass TLC Certificate		Weight	125kg (Excluding the equipment and battery)
Wallboard Material Wall Thickness Lock Vall Thickness Va		User Space	40U
Wall Doard Material Wall Thickness Lock Lock Protection Grade Specifications of Bottom Wiring Hole Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet PC1500Power PC1500Power PC300Power PC300Powe		Framematerial	Galvanized Steel Sheet
Lock Lock Protection Grade Protection Grade Specifications of Bottom Wiring Hole Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet Equipment Cabinet Temperature Control PC1500Power PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Groups Battery Groups 150Ah 12V AGM Battery Battery Groups Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself. Product Certification PS5 Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself. PS5 8* \$ 50mm Full Shipment Delivery -40°C ~ +70°C 5% ~ 100% PC1500 PC1500 PC1500 PC1500 PC1500 PC1500 PC1500 PC1500 PC1500 PC300		Wallboard Material	Pre-painted Galvanized Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
Lock Protection Grade Protection Grade Specifications of Bottom Wiring Hole Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet Equipment Cabinet Temperature Control PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 POWer PC300 Cooling Capacity Heater Power Consumption (optional) Battery PC300 Cooling Capacity Heater Power Consumption (optional) Battery Capacity Heater Power Consumption (optional) Battery Groups 150Ah 12V AGM Battery Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Product Certification Pass TLC Certificate		Wall Thickness	
Specifications of Bottom Wiring Hole Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet Equipment Cabinet Temperature Control PC1500Power PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Cooling Capacity Heater Power Consumption (optional) Battery Capacity Heater Power Consumption (optional) Battery Capacity Heater Power Consumption (optional) Battery Groups Battery Groups 4 Other Information Lighting (optional) Certification & Standard Product Certification Pass TLC Certificate		Lock	Core, can change by itself, can match padlock by
Delivery Mode Cabinet Storage Temperature Relative Humidity of Outer Cabinet Temperature Control Information Equipment Cabinet Temperature Control PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300Power PC300Pow		Protection Grade	IP55
Cabinet Storage Temperature Relative Humidity of Outer Cabinet Temperature Control Information Equipment Cabinet Temperature Control PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 PC30		Specifications of Bottom Wiring Hole	8*Φ50mm
Relative Humidity of Outer Cabinet Temperature Control Information Equipment Cabinet Temperature Control PC1500Power PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) PC300Power PC300Power PC300Power PC300Power PC300Power PC300Cooling Capacity Heater Power Consumption (optional) Battery Capacity Heater Power Consumption (optional) Battery Information (optional) Battery Specifications Battery Capacity Battery Capacity Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Certification & Standard Product Certification Pass TLC Certificate		Delivery Mode	Full Shipment Delivery
2 Temperature Control Information Equipment Cabinet Temperature Control PC1500Power 600W PC1500Cooling Capacity 1500W @L35/L35 Heater Power Consumption (optional) 1000W Battery Cabinet Temperature Control PC300 PC300Power 230W @L35/L35 PC300Cooling Capacity 400W @L35/L35 Heater Power Consumption (optional) 400W 3 Battery Information (optional) Battery Specifications 150Ah 12V AGM Battery Battery Capacity 300Ah Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		Cabinet Storage Temperature	-40°C ~ +70°C
Equipment Cabinet Temperature Control PC1500Power PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300Power PC300Power PC300Cooling Capacity Heater Power Consumption (optional) Battery Information (optional) Battery Specifications Battery Capacity Battery Capacity Battery Capacity Battery Capacity Battery Groups 4 Other Information Lighting (optional) Certification & Standard Product Certification PC300W @L35/L35 HOW @L3		Relative Humidity of Outer Cabinet	5% ~ 100%
PC1500Power PC1500Cooling Capacity 1500W @L35/L35 Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Information (optional) Battery Specifications Battery Capacity Battery Capacity Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Freduct Certification Pass TLC Certificate	2	Temperature Control Information	
PC1500Cooling Capacity Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Information (optional) Battery Specifications Battery Capacity Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Freduct Certification Product Certification DOW Battery Specification Pass TLC Certificate		Equipment Cabinet Temperature Control	PC1500
Heater Power Consumption (optional) Battery Cabinet Temperature Control PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Information (optional) Battery Specifications Battery Capacity Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Certification & Standard Product Certification Pass TLC Certificate		PC1500Power	600W
Battery Cabinet Temperature Control PC300 PC300 Power PC300 Cooling Capacity Heater Power Consumption (optional) Battery Information (optional) Battery Specifications Battery Capacity Battery Groups 4 Other Information Lighting (optional) DC-48V LED Light Certification & Standard Product Certification Pass TLC Certificate		PC1500Cooling Capacity	1500W @L35/L35
PC300 Power 230W @L35/L35 PC300 Cooling Capacity 400W @L35/L35 Heater Power Consumption (optional) 400W 3 Battery Information (optional) Battery Specifications 150Ah 12V AGM Battery Battery Capacity 300Ah Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		Heater Power Consumption (optional)	1000W
PC300 Cooling Capacity 400W @L35/L35 Heater Power Consumption (optional) 400W 3 Battery Information (optional) Battery Specifications 150Ah 12V AGM Battery Battery Capacity 300Ah Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		Battery Cabinet Temperature Control	PC300
Heater Power Consumption (optional) Battery Information (optional) Battery Specifications 150Ah 12V AGM Battery Battery Capacity 300Ah Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		PC300 Power	230W @L35/L35
3 Battery Information (optional) Battery Specifications 150Ah 12V AGM Battery Battery Capacity 300Ah Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		PC300 Cooling Capacity	400W @L35/L35
Battery Specifications 150Ah 12V AGM Battery Battery Capacity 300Ah Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		Heater Power Consumption (optional)	400W
Battery Capacity Battery Groups 4 Other Information Lighting (optional) Certification & Standard Product Certification Pass TLC Certificate	3	Battery Information (optional)	
Battery Groups 2 Groups 4 Other Information Lighting (optional) DC-48V LED Light 5 Certification & Standard Product Certification Pass TLC Certificate		Battery Specifications	150Ah 12V AGM Battery
4 Other Information Lighting (optional) DC-48V LED Light Certification & Standard Product Certification Pass TLC Certificate		Battery Capacity	300Ah
Lighting (optional) Certification & Standard Product Certification Pass TLC Certificate		Battery Groups	2 Groups
5 Certification & Standard Product Certification Pass TLC Certificate	4	Other Information	
Product Certification Pass TLC Certificate		Lighting (optional)	DC-48V LED Light
	5	Certification & Standard	
Industry Standard YD/T 1537-2015		Product Certification	Pass TLC Certificate
		Industry Standard	YD/T 1537-2015







Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1400mm(Height)
	Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*1705mm(Height)
	Covering Area	905mm(Width)*905mm(Depth)
	Height of Base	200mm
	Weight	95kg (Excluding the equipment and battery)
	User Space	31U
	Framematerial	Galvanized Steel Sheet
	Wallboard Material	Pre-painted Galvanized Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Φ50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	- 40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	PC1500
	PC1500Power	600W @L35/L35
	PC1500Cooling Capacity	1500W @L35/L35
	Heater Power Consumption (optional)	1000W
3	Battery Information (optional)	
	Battery Specifications	150Ah 12V AGM Battery
	Battery Capacity	300Ah
	Battery Groups	2 Groups
4	Other Information	
	Lighting (optional)	DC-48V LED Light
5	Certification & Standard	

Pass TLC Certificate

YD/T 1537-2015

Product Certification Industry Standard

1.4M Power Cabinet

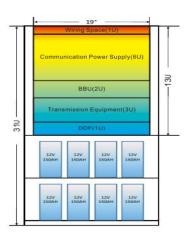


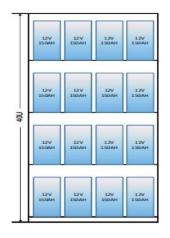


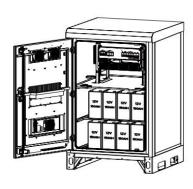
Equipment cabinet(31-40U)

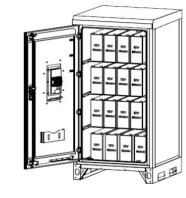
1.4M Power Cabinet

Serial Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	650mm(Width)*650mm(Depth)*1400mm(Height)
	Outer Size of Cabinet	760mm(Width)*930mm(Depth)*1705mm(Height)
	Covering Area	750mm(Width)*750mm(Depth)
	Height and Weight of Base	200mm
	Weight	90kg (Excluding the equipment and battery)
	User Space	31U
	Framework	Galvanized Steel Sheet
	Wallboard Material	Color Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	The Heaven and Earth Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Ф50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	-40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	HX08
	HX08Power	70W
	HX08Heat Transfer coefficient	80W/K
	Heater Power Consumption (optional)	400W
	Battery Cabinet Temperature Control	TC02
	TC02 Power	Typical:300W; Max:380W
	TC02 Cooling Capacity	200W
	Heater Power Consumption (optional)	400W
3	Battery Information (optional)	
	Battery Specifications	150Ah 12V AGM Battery
	Battery Capacity	300Ah
	Battery Groups	2 Groups
4	Other Information	
	Lighting (optional)	DC-48V LED Light
5	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015









1.8M Battery Cabinet

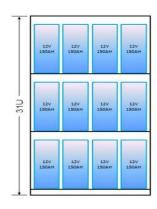
Carial		
Serial Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1800mm(Height)
	Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*2105mm(Height)
	Covering Area	905mm(Width)*905mm(Depth)
	Height of Base	200mm
	Weight	108kg (Excluding the equipment and battery)
	User Space	40U
	Framematerial	Galvanized Steel Sheet
	Wallboard Material	Pre-painted Galvanized Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Φ50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	- 40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	TC02
	TC02Power	Typical:300W; Max:380W
	TC02Cooling Capacity	200W
	Heater Power Consumption (optional)	400W
3	Battery Information (optional)	
	Battery Specifications	650Ah 2V/150Ah 12V AGM Battery
	Battery Capacity	650Ah/650Ah
	Battery Groups	1Groups/4Groups
4	Other Information	
	Lighting (optional)	DC-48V LED Light
5	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015

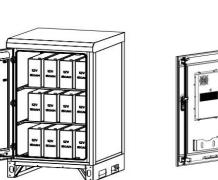


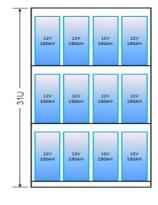
Equipment cabinet(31U)

1.4M Battery Cabinet

Serial Number	Project	Parameter
1	Basic information	
	Inner Size of Cabinet	650mm(Width)*650mm(Depth)*1400mm(Height)
	Outer Size of Cabinet	760mm(Width)*930mm(Depth)*1705mm(Height)
	Covering Area	750mm(Width)*750mm(Depth)
	Height and Weight of Base	200mm
	Weight	70kg (Excluding the equipment and battery)
	User Space	31U
	Framework	Galvanized Steel Sheet
	Wallboard Material	Color Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)
	Wall Thickness	45mm
	Lock	The Heaven and Earth Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself
	Protection Grade	IP55
	Specifications of Bottom Wiring Hole	8*Φ50mm
	Delivery Mode	Full Shipment Delivery
	Cabinet Storage Temperature	- 40°C ~ +70°C
	Relative Humidity of Outer Cabinet	5% ~ 100%
2	Temperature Control Information	
	Equipment Cabinet Temperature Control	DC300
	DC300 Power	Typical: 300W; Max: 300W
	DC300 Refrigerating Capacity	200W
	Heater Power Consumption (optional)	400W
3	Battery Information (optional)	
	Battery Specifications	400Ah 2V/150Ah 12V AGM Battery
	Battery Capacity	400Ah/450Ah
	Battery Groups	1Groups/3Groups
4	Other Information	
	Lighting (optional)	DC-48V LED Light
5	Certification & Standard	
	Product Certification	Pass TLC Certificate
	Industry Standard	YD/T 1537-2015









1.4M Battery Cabinet

erial umber	Project	Parameter			
1	Basic information				
	Inner Size of Cabinet	800mm(Width)*800mm(Depth)*1400mm(Height)			
	Outer Size of Cabinet	905mm(Width)*1080mm(Depth)*1705mm(Height)			
	Covering Area	905mm(Width)*905mm(Depth)			
	Height and Weight of Base	200mm			
	Weight	90kg (Excluding the equipment and battery)			
	User Space	31U			
	Framework	Galvanized Steel Sheet			
	Wallboard Material	Color Steel Sandwich Board: Color Steel + Polystyrene (Polyurethane is optional)			
	Wall Thickness	45mm			
	Lock	The Heaven and Earth Three Point Anti-theft Lock, Europe Standard Lock Core, can change by itself, can match padlock by itself			
	Protection Grade	IP55			
	Specifications of Bottom Wiring Hole	8*Φ50mm			
	Delivery Mode	Full Shipment Delivery			
	Cabinet Storage Temperature	- 40°C ~ +70°C			
	Relative Humidity of Outer Cabinet	5% ~ 100%			
2	Temperature Control Information				
	Equipment Cabinet Temperature Control	PC300			
	PC300Power	230W @L35/L35			
	PC300Cooling Capacity	400W @L35/L35			
	Heater Power Consumption (optional)	400W			
3	Battery Information (optional)				
	Battery Specifications	400Ah 2V/150Ah 12V AGM Battery			
	Battery Capacity	400Ah/450Ah			
	Battery Groups	1Groups/3Groups			
4	Other Information				
	Lighting (optional)	DC-48V LED Light			
5	Certification & Standard				
	Product Certification	Pass TLC Certificate			
	Industry Standard	YD/T 1537-2015			



OUTDOOR CABINET

Model	15U 22U	
PHYSICAL SPECIFICATIONS		
Exterior Height	743mm (29,3") 1047	7,5mm (41,2")
Exterior Width		nm (23,1")
Exterior Depth *		nm (21,4")
Net weight *		(52,9lbs)
Usable Mounting Height		(844mm / 33")
* info does not contain thermal manageme		(04-1111117-33-)
THERMAL MANAGEMENT OPTIO		
Fan and Filter Solution	10	
- Cooling capacity (at ΔT=10°C)	700W	
- Fan specification	48Vdc / 76W / IP44	
 Fan speed control 	Temperature regulated	
 Filter specification 	Progressive dump filter; 0,1m ² . Filter class F5 (EN 779	
- Physical information	Adds 53mm (2,1") to cabinet depth, adds 8,4kg (18.5lb	s) to cabinet weight.
Air Conditioning unit (AC powered) - Cooling capacity (at 35C/35C)	570W at 50Hz / 645W at 60Hz	
- Heating capacity (at 350/350)	500W built-in	
- Power input	230Vac+/- 10%, 50/60Hz	
 Physical information 	Adds 263mm (10,4") to cabinet depth, adds 28,4kg (62	2,6lbs) to cabinet weight.
Air Conditioning unit (DC powered)		
 Cooling capacity (at 35C/35C) 	520W	
 Heating capacity 	500W built-in	
Power inputPhysical information	48V _{DC} nominal (46V _{DC} – 56V _{DC}) Adds 212mm (8,3") to cabinet depth, adds 23kg (50,7l	he) to cabinet weight
All Models	AGGS 212mm (0,5) to cabinet depth, adds 25kg (50,7t	os, to capinet weight.
CONSTRUCTION SPECIFICATION	S	
Skin material	1,5mm (0,06") thick aluminum (lightweight, corrosion-r	esistant)
Frame Material	Galvanized Steel	,
Powder-Coat Paint	Outdoor Polyester light gray RAL 7035 coating	
Insulation	Closed Cell Insulation (optional)	
Rail mounting Pattern EIA Standard with holes for Cage nuts		
Orientation	19" mount	
	13 mount	
DOOR SPECIFICATIONS		
Latches	Two point latch, with optional euro lock cylinder	
Gasket	UL rated for outdoor use	
Door Stop / Door Stay	Wind latch to hold door during maintenance (120°)	
MISCELLANEOUS SPECIFICATION		
Cable Glands	Bottom Cable Access through 1x FL21 cut out	Different options available
Battery trays	19" tray(s) Space (W x D): 448,5mm x 398mm (17,6" x 15,6")	Each Tray weighs 2,1kg (4,6lbs)
20220. j 2. 3 y 3	Max. 150kg (330 lbs) weight load	23311 110y WOIGHS 2,2NG (4,0103)
Ground Bar	4xM6 inserts on 19" rails, left/right	
Heater	Optional 500W	Kit weighs 1,3kg (2,9lbs)
Plinth	Optional 152mm (6") high plinth. Foot Print (W x D): 579mm x 517mm (22,8" x 20,4")	Weighs 7,6kg (16,7lbs)
Mounting Brackets	Stainless Steel wall or pole Pole diameter Ø 60-115mm Max 200Kg (441lbs) weight load	Weighs 11kg (24,2lbs)
Lifting Ears	4 detachable sheet metal ears connected with 4x M8	holts
Packaging Information	Shipments made in an upright position on a wooden pa	
DESIGN STANDARDS	omprisonts made in an aprignt position of a wooderr pa	THE THE STATE (10, THE STATE OF
	IEC 60950, UL 60950*, CAN CSA-C22.2 No. 60950-1-03	1
Electrical	(Depending on Equipment Installed)	
EMC	ETSI EN 300 386 V.1.3.1, EN 61000-6-3, EN 61000-6-2	

Outdoor power cabinet

The Type 2 cabinet platform is designed for a variety of applications and can be tailored to fit your specific needs. The cabinet is well suited for power, batteries and telecom/industrial equipment, all integrated into a robust package.

KEY FEATURES

- 19" EQUIPMENT SPACE
- OPTIONAL THERMAL INSULATION
- DC POWER, TELECOM/INDUSTRIAL EQUIPMENT AND BATTERY BACKUP
- ALUMINUM CONSTRUCTION
- DOOR MOUNTED THERMAL MANAGEMENT OPTIONS:
 - O FAN / FILTER
 - AIR-CONDITIONER
- FLOOR, WALL OR POLE MOUNT
- 3U SECTION FOR A DIN RAIL AC DISTRIBUTION
- UL 50
- IP55, NEMA 3R
- CLOGGED FILTER DETECTION
- EASY INSTALLATION
- EASY FILTER CHANGE
- EASY MAINTENANCE







SINGLE BAY CABINET

Single bay cabinet works very well as s stand-alone power / battery backup solution. Can be as well used as expansion cabinet for telecom / industrial equipment or battery backup expansion cabinet.

Single bay cabinet is economical solution in applications where single climate zone in cabinet is required.

THERMAL MANAGEMENT SPECIFICATION

Various options - Fan and filter

- Air-conditioner

- Heat exchanger

- Hybrid

Heater(s) Depend on selected thermal

management

Cooling capacity Depend on selected thermal

management

CONSTRUCTION

Rack space From 21U to 44U

(depend on selected model)

Insulation Optional





DUAL CHAMBER CABINET

Dual Chamber Cabinet splits the cabinet into to two climate zones. Top zone cools the electrical equipment with a fan and filter, while the bottom zone cools the batteries with a small air-conditioner.

With its unique feature of cooling the batteries only with an air-conditioner, you will save capital cost as well as operating cost

TOP CHAMBER SPECIFICATION

Thermal management Fan and filter

Fan voltage 48Vdc

Fan speed control Temp. regulated

Cooling capacity 700W

19" space 10U

BOTTOM CHAMBER SPECIFICATIONS

Thermal management Air-conditioner

Insulation Dual layer





CABINET VARIANTS

DUAL BAY CABINET

With a dual bay cabinet you are able to combine power, batteries, telecom equipment and even an Indoor BTS in one cabinet stand. This unique solution gives you the best flexibility and provides easy use of indoor BTS's used in an Outdoor Cabinet.

The right bay can also be equipped with high capacity batteries for hybrid sites for cyclic gen sets or solar/wind powered sites.

THERMAL MANAGEMENT SPECIFICATIONS

Thermal management Fan and filter

Fan Voltage 48Vdc

Fan speed control Temp. regulated

Heater Optional

Thermally separated left and right bay

OPTIONS

Anti-vandal security feature
Top cable entry for RF cables

Battery shelf space in Right Bay: 700mm x 516mm x 180mm

 $(W \times D \times H)$ $(27,5" \times 20,3" \times 7")$

DIMENSIONAL SPECIFICATIONS

Cabinet height 2200mm (86,6")
Cabinet depth 901mm (35,5")
Cabinet width 1462mm (57,6")





OUTDOOR CABINET

Model	1,2m	1,5m	1,8m	2,0m		2,2m
PHYSICAL SPECIFICATIONS						
Exterior Width (mm)	700 (27,5")	700 (27,5")	700 (27,5")	700 (27,5"	')	700 (27,5")
Exterior Depth (mm)*	770 (30,3")	770 (30,3")	770 (30,3")	770 (30,3"	")	770 (30,3")
Weight*	68,6Kg (151 lbs)	94kg (207 lbs)	100kg (220	lbs) 102,5kg (2	226 lbs)	105Kg (231 lbs)
Rack space	21U	28U	34U	39U		44U
*Info does not contain cooling						
THERMAL MANAGEMENT OP	TIONS					
Fan and Filter	See page 4 for details					
Heat Exchanger	See page 4 for details					
Air Conditioning unit	AC-ACU, 0.57kW	AC-ACU , 2kW		ACU, 0.52kW		C, 2kW
- Power input	230V _{AC} ±10%, 50/60H					oc nominal
Cooling capacity (at 35C/35C) Heating capacity (built-in)	570W at 50Hz 500W	2000W 1000W	520 500		2000 600V	
- Adds to cabinet depth	253mm (10")	163mm (6.4")		mm (8.8")		nm (8.4")
- Adds to cabinet weight	34.1kg (75lbs)	57.1kg (126lbs)		Lkg (88lbs)		kg (132lb)
	All units are IP55 rated					-
Hybrid Cooling Unit (see contact for more information)	Active cooling/Free co	ooling solution (AC/ xchanger (AC/HEX	/FC) :)			
Dual chamber solution	See page 2 for details					
CONSTRUCTION SPECIFICAT	IONS					
Skin Material	1.5mm (0.06") thick el	ectro-galvanized s	teel (corrosio	n-resistant)		
Frame Material	Galvanized Steel					
Powder-Coat Paint	Outdoor Polyester Light gray RAL 7035 coating					
Insulation	Closed Cell Insulation					
DOOR SPECIFICATIONS						
Latches	Four-point latched, ava	ailable with an opti	ional lock			
Gasket	UL rated for outdoor u	•				
Door Stop / Door Stay	Wind latch to hold doo		nce (120º)			
RAIL SPECIFICATIONS						
Construction	Galvanized Steel					
				Optional M5 o	- MC L:+	ilabla
Mounting Pattern	EIA Standard with hole					
Mounting	19" mount - Available			23" versions a	available	e upon request
MISCELLANEOUS SPECIFICA				11000 42 20 00		Ji. 100
Cable Entry	Bottom Cable Access			Various gland	s availa	ble upon request
Battery trays	Optional 23" tray(s) ca batteries up to 260		string of	Each tray wei	ghs 5.6l	kg (12.3lbs)
Ground Bar	11 position M6 pressn	ut				
Heater	Optional 500W, can ins	stall up to 2 heater	rs	Each kit weigh	าร 1.3K	g (2.86lbs)
Plinth	Foot Print (W x D) 698r	mm x 743mm (27,5	5" × 29")			
Lifting Ears	4 lifting ears located u	ınder top cover				
Zone 4 (see contact for more information)	Special Cabinets availa	able to handle Zon	e 4 Seismic			
Shipping Pallet	Shipments made in an	upright position or	n a wood pal	et Weight of pac	king 14	kg (30lbs)
DESIGN STANDARDS						
Electrical	IEC 60950, UL 60950*, (Depending on Equipm		o. 60950-1-0	3		
EMC	ETSI EN 300 386 V.1.3		EN 61000-6-2	2		
Environment	ETS 300 019, Ingress F					

Outdoor power cabinet

The Type 3 cabinet platform is designed for a variety of applications and can be tailored to fit your specific needs. The cabinet is well suited for power, batteries and telecom/industrial equipment, all integrated into a robust package. This solution has a unique cube design that give flexibility to easily have various heights of cabinets.

CARACTERISTICAS PRINCIPALES

- ESPACIO PARA EOUIPO DE 19"
- OPCIONAL: AISLAMIENTO TERMICO
- PLANTA DE RECTIFICADORES DE DC Y TIEMPO DE RESPALDO PARA EQUIPO DE TELEFONIA
- CONSTRUIDO CON ACERO GALVANIZADO (O DE ALUMINIO BAJO PEDIDO)
- CONTROL DE TEMPERATURA MONTADO EN LA PUERTA:
 - VENTILADORES
 - AIRE ACONDICIONADO
 - INTERCAMBIADOR DE CALOR
 - O HIBRIDO
 - CALEFACCION
- VARIANTE DE GABINETES:
 - GABINETE SENCILLO
 - GABINETE DUAL
 - GABINETE CON DOS CAMARAS
- KIT ANTIVANDALISMO
- UL 50,IP55, NEMA 3R
- FACIL INSTALACION
- FACIL MANTENIMIENTO







(48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1	MODEL	1.5m	2.0m					
Exterior Depth * 772mm 772mm 2068mm Exterior Height 1456mm 2068mm Weight * 61kg 67kg Rack space 27U 39U * Info does not contain thermal management system options THERMAL MANAGEMENT SYSTEM Fan and Filter See page 2 for details CONSTRUCTION SPECIFICATION Skin Material 1.0mm thick electro-galvanized steel (corrosion-resistant) Frame Material 2.0mm galvanized steel Powder Coat paint Outdoor Polyester coating, Light grey RAL 7035 DOOR SPECIFICATION Locking Multi-point latched, available with an optional euro lock cylinder Gasket Door gasket rated for outdoor use Door stop Wind latch to hold door during maintenance (120°) OTHER SPECIFICATIONS Thermal insulation Optional closed cell thermal insulation Cable entry Bottom Front cable access through 2x FL-21 cut-outs Various glands available upon request Battery trays Optional battery tray(s) capable of holding a set of batteries up to 280kg Plinth Footprint (WxD): 692x742mm, Height: 104mm Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 - 1 /-22 EMC ETSI EN 300 386-V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Emvironment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-14, Class 1.3 ETSI EN 300 019-1-14, Class 1.3 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ	PHYSICAL SPECIFICATION	S						
Exterior Height 1456mm 2068mm Weight * 61kg 67kg Rack space 27U 39U *Info does not contain thermal management system options THERMAL MANAGEMENT SYSTEM Fan and Filter See page 2 for details CONSTRUCTION SPECIFICATION Skin Material 1.0mm thick electro-galvanized steel (corrosion-resistant) Frame Material 2.0mm galvanized steel Powder Coat paint Outdoor Polyester coating, Light grey RAL 7035 DOOR SPECIFICATION Locking Multi-point latched, available with an optional euro lock cylinder Gasket Door gasket rated for outdoor use Door stop Wind latch to hold door during maintenance (120°) OTHER SPECIFICATIONS Thermal insulation Optional closed cell thermal insulation Cable entry Bottom Front cable access through 2x FL-21 cut-outs Various glands available upon request Battery trays Optional battery tray(s) capable of holding a set of batteries up to 280kg Plinth Footprint (WxD): 692x742mm, Height: 104mm Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service ligh (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 ETSI EN 300 386-V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ	Exterior Width	705mm	705mm					
Weight * 61kg 67kg Rack space 27U 39U *Info does not contain thermal management system options *Infermal management system options *Infermal management system options *Infermal management system options *Infermal management system options *Infermal management system *Infermal management system *Infermal	Exterior Depth *	772mm	772mm					
* Info does not contain thermal management system options THERMAL MANAGEMENT SYSTEM Fan and Filter See page 2 for details CONSTRUCTION SPECIFICATION Skin Material 1.0mm thick electro-galvanized steel (corrosion-resistant) Frame Material 2.0mm galvanized steel Powder Coat paint Outdoor Polyester coating, Light grey RAL 7035 DOOR SPECIFICATION Locking Multi-point latched, available with an optional euro lock cylinder Gasket Door gasket rated for outdoor use Door stop Wind latch to hold door during maintenance (120°) OTHER SPECIFICATIONS Thermal insulation Optional closed cell thermal insulation Cable entry Bottom Front cable access through 2x FL-21 cut-outs Various glands available upon request Battery trays Optional battery tray(s) capable of holding a set of batteries up to 280kg Plinth Pootprint (WxD): 692x742mm, Height: 104mm Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ	Exterior Height	1456mm	2068mm					
* Info does not contain thermal management system options THERMAL MANAGEMENT SYSTEM Fan and Filter See page 2 for details CONSTRUCTION SPECIFICATION Skin Material 1.0mm thick electro-galvanized steel (corrosion-resistant) Frame Material 2.0mm galvanized steel Powder Coat paint Outdoor Polyester coating, Light grey RAL 7035 DOOR SPECIFICATION Locking Multi-point latched, available with an optional euro lock cylinder Gasket Door gasket rated for outdoor use Door stop Wind latch to hold door during maintenance (120*) OTHER SPECIFICATIONS Thermal insulation Optional closed cell thermal insulation Cable entry Bottom Front cable access through 2x FL-21 cut-outs Various glands available upon request Battery trays Optional battery tray(s) capable of holding a set of batteries up to 280kg Plinth Footprint (WxD): 692x742mm, Height: 104mm Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ	Weight *	61kg	67kg					
THERMAL MANAGEMENT SYSTEM Fan and Filter See page 2 for details CONSTRUCTION SPECIFICATION Skin Material 1.0mm thick electro-galvanized steel (corrosion-resistant) Frame Material 2.0mm galvanized steel Powder Coat paint Outdoor Polyester coating, Light grey RAL 7035 DOOR SPECIFICATION Locking Multi-point latched, available with an optional euro lock cylinder Gasket Door gasket rated for outdoor use Door stop Wind latch to hold door during maintenance (120*) OTHER SPECIFICATIONS Thermal insulation Optional closed cell thermal insulation Cable entry Bottom Front cable access through 2x FL-21 cut-outs Various glands available upon request Battery trays Optional battery tray(s) capable of holding a set of batteries up to 280kg Plinth Footprint (WxD): 692x742mm, Height: 104mm Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386-V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-1, Class 2.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ								
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Thermal insulation Cable entry Bottom Front cable access through 2x FL-21 cut-outs Various glands available upon request Battery trays Optional battery tray(s) capable of holding a set of batteries up to 280kg Plinth Footprint (WxD): 692x742mm, Height: 104mm Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-4, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ								
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Optional plinth covers (front, rear, sides) Shipping Shipments made in an upright position on pallet Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1	Battery trays	ays Optional battery tray(s) capable of holding a set of batteries up to 280kg						
Other general options Door switch, Document folder, Smoke detector, AC service socket, Service light (48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1 EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ	Plinth		The state of the s					
(48VDC), PC shelf DESIGN STANDARDS Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1	Shipping	Shipments made in an up	oright position on pallet					
Electrical safety IEC 60950 -1 /-22 EMC ETSI EN 300 386:V2.1.1	Other general options	Door switch, Document folder, Smoke detector, AC service socket, Service light						
EMC	DESIGN STANDARDS							
EN 61000-6-1 /-2 /-3 /-4 FCC CFR 47 Part 15 Environment ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 4.1 Ingress Protection EN 60529, IP55 ORDERING INFORMATION PART NUMBER DESCRIPTION MOQ	Electrical safety	IEC 60950 -1 /-22						
Environment	EMC	EN 61000-6-1 /-2 /-3 /-4	ETSI EN 300 386:V2.1.1 EN 61000-6-1 /-2 /-3 /-4					
PART NUMBER DESCRIPTION MOQ	Environment	ETSI EN 300 019-1-1, Class 1.3 ETSI EN 300 019-1-2, Class 2.3 ETSI EN 300 019-1-4, Class 4.1						
	ORDERING INFORMATION							
OT and the state of the state o	PART NUMBER	DESCRIPTION		MOQ				
CTxxxxxx.nnnn Power system configured with Type 4 cabinet 1 pc	CTxxxxxx.nnnn	Power system configured	with Type 4 cabinet	1 pc				

RELIABILITY

Reliability within the outdoor plan depends upon a cool, dry and secure environment for the electronics such as the DC power and Telecon equipment.

The Type 4 Outdoor Power Cabine more than accomplishes this with its Thermal Management that will keep sensitive electronics functioning in extreme environments.

KEY FEATURES

- SINGLE BAY CABINET SUITABLE FOR:
 - DC POWER
 - BATTERY BACKUP
 - TELECOM EQUIPMENT or combination of above
- 19" EQUIPMENT SPACE
- GALVANIZED STEEL CONSTRUCTION
- DOOR MOUNTED THERMAL MANAGEMENT SYSTEM
- WIDE RANGE OF OPTIONS
 - THERMAL INSULATION
 - DOOR SWITCH
 - DOCUMENT FOLDER
 - SMOKE DETECTOR
 - AC SERVICE SOCKET
 - SERVICE LIGHT

and more

- GLOBAL APPROVALS
- IP55





Chapter III: Indoor Network Cabinets

19"SPCC or SGCC 18U 22U 27U 32U 42U 47U Network Cabinet Server Rack

Product Description

Feature:

Exquisite design with precise craftsmanship;

Nine-folded profiled, welded frame with high intensity;

High-density perforated front door (single open) with over 180 turning degree;

High-density perforated rear door (dual open) enable quipment ventilation and reliable operation with ventilation rate

above 50%

Removable side panel, easy to install and maintain(lock optional)

Connected by four-corner to ensure the strength and stability

Adjustable feet and castors sre available at the same time

Adjustable cable entry with dust-proof on the top cover and bottom panel

Advanced moon-shaped locks

Metal cable ring on the mounting profile for cable management;

Efficient baying kit of cabinet, Earthing kit

Supplied as welded structure, also supplied as a flat packing, which is about 2/5 of the assembled volume, easy to

shipping and

assemble

Optional Accessories for common using

Standard:

Comply with ANS/EIA RS-310-D, IEC297-2, DIN41491, PART1, DIN41491 Standard

Material:

Frame: Nine-folded profiled (SPCC)

Others: SPCC quality cold rolled steel

Thickness: Mounting profile: 2.0mm; mounting angle: 1.5mm; other: 1.2mm

Loading Capacity:

Static loading: 1000kg

Degree of protection:

IP20

Surface finish:

Degreaseing, Pickling, Phosphating, Powder Coated

Overview

Essential details

Products Status:

Stock

Material:

SPCC Cold Rolled Steel, SPCC Cold Rolled Steel

Place of Origin:

shanghai

Model Number.

6U, 9U, 24U

Structure:

double-wall

certification:

CE,ISO,ROHS,GS

Mounting method:

Floor mounted

IP Degree:

IP20, IP30

Certification:

FCC, ce, CSA, RoHS

Cabinet Standard:

conventional

Size:

6-47U

Brand Name:

Huijue

Dimension:

6-47U

Board thickness:

1.5mm/2.0mm

Loading Capacity:

Static loading:1000KGS

Color:

RAI9004,RAL7035,RAL1013,etc

Product Name:

Data Center Server Rack 42U Floor Standing Glass Do...





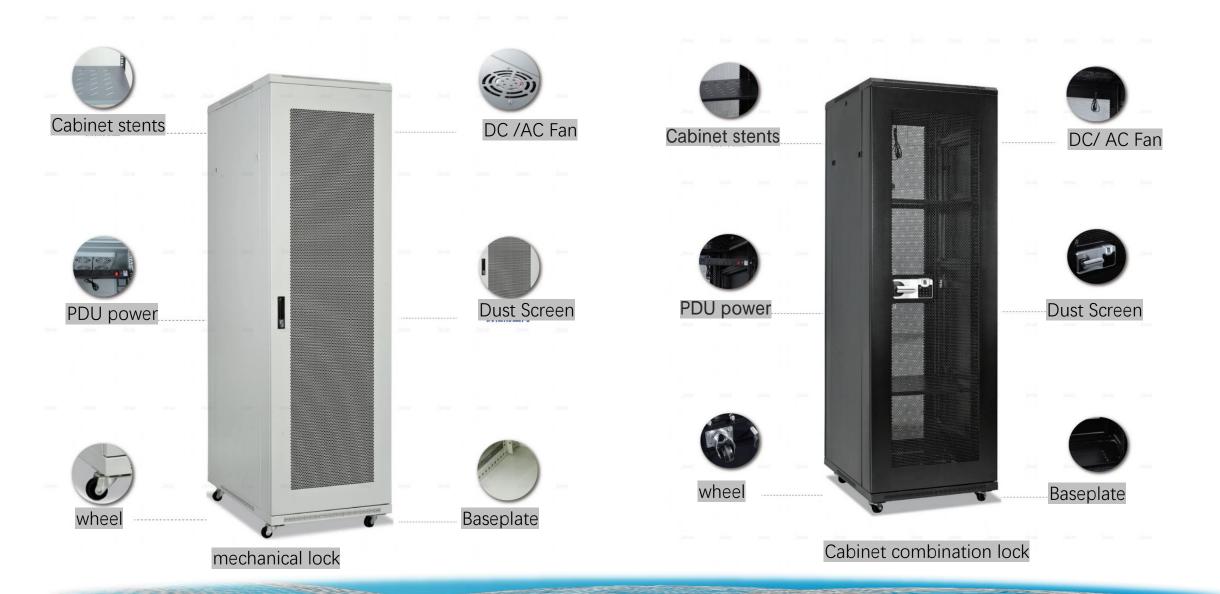
Indoor Cabinet







Indoor Cabinet





Network Cabinets

19inch racks cabinet data wall box 22u 19inch 8u standard mounted enclosure server cabinet rack wall mount 6u network cabinet

Basic Information				
1)Standard Comply with ANSI/EIARS-310-D,DIN41491;PART1,IEC297-2,DIN41494;PART7,GE 92 standard.Compatible with metric ETSI and 19 inch international standard				
2)Material	Zinc plated mounting profiles,SPCC Cold rolled steel			
3)Thickness	Mounting profile:1.0mm,others:0.6mm			
4)Surface Finish	Degreasing,Picking,Phosphating,Powder coating			
5)Protection Degree	IP20			
6)Loading Capacity 50kgs				
7)Color	RAL9004(Black),RAL7035(Grey white)			

Rack Cabinet Features

- 1) Zinc Plated mounting profile
- 2) Secure, firm and reliable
- 3) Easy to maintain equipment
- 4) Two Packing Ways:

Assembly packing to save labour cost, ready to resell or use

Disassembly packing to save space and transport cost, easy to assemble

- 5) Various optional accessories: PDU, fan, shelf, bracket, cable tray, etc..
- 6) Certification: ISO 9001:2000
- 7) OEM/ODM service available

Cabinet Applications:

Small, Medium and Large Servers

DVR, Security Equipment and Routers

Patch Panels and Switches

Telephone Systems and PABX

Network and Communications Equipment

UPS Equipment

Other Rack Mount Equipment









Indoor Cabinet







Cabinet posts



Indoor Network Cabinets

Doc 900241.DS3 - rev6

The state of the s	0,7m	1,0m	1,2m	1,5m	1,8m	2,0m	2,2m
MODEL	W600xD400	W600xD400	W600xD600	W600xD600		W600xD400 W600xD600	W600xD600
PHYSICAL SPECIFIC	CATION						
Height	714mm	1025mm	1203mm	1465mm	1780mm	1960mm	2180mm
Width	596mm	596mm	596mm	596mm	596mm	596mm	596mm
Depth without the door 1)	407mm	407mm	607mm	607mm	407 / 607mm	407 / 607mm	607mm
Weight 2)	14kg	19kg	25kg	28kg	24,5 / 31,5kg	25,5 / 34kg	36,5kg
Rack space	13U (wall mount) 14U (floor mount)	21U	25U	31U	38U	43U	47U
ALL MODELS							
CONSTRUCTION							
Material	Galvanized stee	l 0,7mm thicknes	s, self-bearing c	onstruction			
Finish		painted) vder coated, RAL	9005				
Top knock-outs	5x PG21 5x PG28						
Rack installation width	23inch						
Adjustable feet		to easily level th					
Cabinet grounding	0	ng is provided via	0	01		1 116.1	
Toolbox	Cabinet comes with toolbox feature located at bottom under battery shelf; it includes lifting ears, wall fixing brackets and other necessities						
Weight capacity	Maximum weigh	t capacity of cab	inet is 1350kg p	er cabinet.			
FRONT COVER OPT	TIONS						
Door	Fully vented door, hinged on left or right side of the cabinet secured with two locks allowing 150 degree opening for good access during installation						
Battery cover	Easily detachable battery section cover						
Front panels	Various vented and blind front section panels						
MISCELLANEOUS C	OPTIONS						
19inch mounting rails	23 to 19inch mo	unting rails in va	rious lengths				
Support shelf	Equipment supp	ort shelf					
Battery shelf	Maximum weigh	t load 270kg per	battery shelf	aximum configur	ation of five (5) b	attery shelves p	er cabinet
Seismic option	Seismic option Meets Zone 4 seismic requirements with optional add-on kits						
DESIGN STANDARD	os						
Safety	IEC 60950-1:200	5, EN 60950-1:2	2006+A11:2009				
Transportation	ETSI EN 300-019-2						
Ingress Protection	IP20 when proper panels are installed						
ORDERING INFORM	IATION						
Part No.	Description			M	DQ		
Cxxxxxx.nnnn	Cabinet with por (to be ordered th	wer system nrough Creator or C	ustom project)	1			
	nal 28mm to cabine ont covers and opti						

APPLICATIONS

The cabinets are designed to meet challenging requirements for indoor Telecom applications, with special focus on cable management, with or without back up batteries.

PRODUCT DESCRIPTION

The indoor IFC cabinet platform offers flexible, modular assembly, using a selection of various options. The range consists of several cabinet variants, enabling multifunctional use.

AVAILABLE MODELS:

- 0,7m Cabinet, W600 x D400
- 1.0m Cabinet, W600 x D400
- 1,2m Cabinet, W600 x D600
- 1,5m Cabinet, W600 x D600
- 1,8m Cabinet, W600 x D400 / D600
- 2,0m Cabinet, W600 x D400 / D600
- 2,2m Cabinet, W600 x D600

KEY FEATURES

- LIGHT WEIGHT (<50KG)
- VERY FLEXIBLE
- FEW BASE ELEMENTS
 - Side wall (identical left and right)
 - Top cover
 - Rear wall
 - Bottom including "toolbox"
 - Battery shelves
 - Adjustable legs
- STEEL OR PAINT FINISH
- **FLEXIBLE SHIPMENT**
 - Shipped assembled
 - Optionally flat-packed to the site
- **OUICK ASSEMBLY**
 - Assembly time under 20 minutes
- SEISMIC RESISTANCE
 - Meets Zone 4 seismic requirements with optional add-on kits





Indoor Network Cabinets

Flatpack2 IBB system

The Industrial IBB system is designed for 24-220 Vdc output, from 2-16kW output power

OVERVIEW	
Input	
Max input AC Voltage	275 VAC
Max input AC Voltage	230/400VAC 3 phase (Y)
DC Output	
Max Power	16000 W
Current (maximum)	300 ADC
Max voltage	297 VDC
Max power	16 kW
Other	
Operating temperature	-40 – 45 °C
Dimensions	
Dimensions WxHxD (mm)	600 x 2000 x 600 mm
Dimensions WxHxD (inch)	23.62 × 78.74 × 23.62 "
Mounting dimensions	23" / 44U / 600 Width (Inch) / Height (U) / Depth (mm)
Design Standards	
Ingress Protection (IP)	21

High Efficiency Industrial Power solutions

IBB Systems includes the Flatpack2 High Efficiency rectifier for DC power supply facilities and can be used with or without battery. All in all this gives the Industrial Building Blocks (IBB) superior flexibility and can be used in a various kind of application

- Compact design
- Simple installation
- 85-300 Vac input
- · House up to 8 rectifiers
- · 2-16kW output
- DC distribution
- Max 300A dc output
- Graphical 3,2 tft display
- · Ethernet for remote
- 6 digital inputs
- 6 relay outputs
- SNMP protocol with trap
- Hot pluggable





Chapter IV: Power Supply System

Flatpack2 Solar Autonomous power core

Eltek's Solar Autonomous power core is based on the Flatpack2 product family, fully integrated into complete and flexible solutions with one single Smartpack2 controller

OVERVIEW	
Input	
Current (maximum)	20 ADC
Voltage DC (operating range)	85 – 420 VDC
Max input DC Voltage	420 VDC
DC Output	
Current (maximum)	500 ADC
Max voltage	48 VDC
Max power	24 kW
Battery Distribution	
Breaker positions up to	8
Breaker rating up to	250 A
DC Load Distribution	
Breaker positions up to	18
Breaker rating up to	125 A
LVLD	Yes
Other	
Operating temperature	-40 – 70 °C
Dimensions	
Dimensions WxHxD (mm)	482 x 311 x 384 mm
Dimensions WxHxD (inch)	19 x 12.3 x 15.1 "
Weight	12 kg

Benefits

The power core has integrated battery distribution, DC load distribution, solar chargers with PV connection panel. The power core is flexible and can easily be upgraded to meet changing demands.

Solar Autonomous site is powered from PV panels and with a combination of cycling batteries supply all required power during the whole day.



Flatpack2 Solar Autonomous power core

- Complete system
- · Smartpack2 Touch controller
- · Advanced control and monitoring
- · through ethernet port
- . HE FP2 solar with MPPT
- Max PV capacity 24kw
- PV connection panel with DC SPD (option)
- Hot pluggable modules
- 19"/4U distribution chassis
- Up to 8x battery breaker positions
- LVBD
- · Up to 18x load breakers positions
- LVLD1
- LVLD2 (optional)
- Global approvals



Flatpack2 Hybrid power core

Eltek's Hybrid power core is based on the Flatpack2 product family, fully integrated into complete and flexible solutions with one single Smartpack2 controller monitoring all energy sources, flow and storage.

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OVERVIEW	
Input	
Current (maximum)	20 ADC
Voltage AC (operating range)	85 – 300 VAC
Voltage DC (operating range)	85 – 420 VDC
Max input AC Voltage	300 VAC
Max input DC Voltage	420 VDC
Mains configuration	230/400VAC 3 phase (Y);230VAC 3 phase (Δ);230VAC Single phase
DC Output	
Current (maximum)	500 ADC
Max voltage	48 VDC
Max power	24 kW
Battery Distribution	
Breaker positions up to	8
Breaker rating up to	250 A
LVBD	Yes
DC Load Distribution	
Breaker positions up to	18
Breaker rating up to	125 A
LVLD	Yes
Other	
Operating temperature	-40 – 70 °C
Dimensions	
Dimensions WxHxD (mm)	482 x 384 x 356 mm
Dimensions WxHxD (inch)	19 x 15.1 x 17 "
Weight	13 kg

Benefits

The Hybrid power core has integrated battery distribution, DC load distribution, rectifiers and solar chargers with PV connection panel. The power core is flexible and can easily be upgraded to meet changing demands.

A typical hybrid site is powered from PV panels in addition to Gen-set and/or mains connection.



Flatpack2 Hybrid power core

- Complete system
- Smartpack2 Touch controller
- · Advanced control and monitoring through ethernet port
- SHE FP2 rectifiers
- HE FP2 solar with MPPT
- Max PV capacity 24kw
- PV connection panel with DC SPD (option)
- · Hot pluggable modules
- 19"/4U distribution chassis
- Up to 8x battery breaker positions
- LVBD
- Up to 18x load breakers positions
- LVLD1
- LVLD2 (optional)
- Global approvals



Flatpack2 5U-7U Integrated

The combination of high efficiency, power density and reliability makes the Flatpack2 a product family that truly stands out and provides unparalleled network availability. The versatility of the Flatpack2 rectifier in combination with advanced control and monitoring means that it can be used in a wide variety of DC telecom applications, both for fixed grid and alternative energy across the globe.

OVERVIEW	
Input	
Max input AC Voltage	305 VAC
Mains configuration	230VAC Single phase;230VAC 3 phase (Δ);230/400VAC 3 phase (Y)
DC Output	
Current (maximum)	500 ADC
Max voltage	60 VDC
Max power	24 kW
Battery Distribution	
Breaker positions up to	8
Breaker rating up to	250 A
LVBD	Yes
DC Load Distribution	
Breaker positions up to	20
Breaker rating up to	125 A
LVLD	Yes
Other	
Operating temperature	-40 – 70 °C
Mounting Type	Rack 19"
Dimensions	
Dimensions WxHxD (mm)	482 x 380 x 311 mm
Dimensions WxHxD (inch)	19 x 14.96 x 12.3 "
Weight	6 kg
Design Standards	
Ingress Protection (IP)	20

Benefits

The 4U distribution is designed to meet the demand for compact and flexible DC power solutions. It is based on building blocks and has a variety of configurations depending on power, controller, battery section and load section.

Pluggable battery breakers and DIN mounted load breakers ensures easy configurability as well as "in field" replacement. The power system has two controller options, Smartpack2 or Smartpack S which both has all the functionality required in present and future applications.



Flatpack2 5U-7U Integrated

- Complete system
- Smartpack2 or Smartpack S controller
- Hot pluggable modules
- 19"/4U distribution chassis with hinged front door
- Upto 8x battery breakers
- LVBD
- Upto 20x load breaker positions
- LVLD (optional)
- Global approvals



Rectiverter Power Core Flexible AC input 6kVA AC + 16-24kW DC

The Rectiverter building block combines both AC and DC feed into one common unit. Simultaneously it provides AC backup power for 230 Vac loads, and 48 Vdc power for DC loads and battery charging.

Max input AC Voltage Max input DC Voltage Mains configuration AC Output Max Output AC Voltage Max power (kVA/kW) DC Output Max Power Max Power	
Current (maximum) 1 Max input AC Voltage 4 Max input DC Voltage 5 Mains configuration 2 AC Output Max Output AC Voltage 2 Max power (kVA/kW) 6 DC Output Max Power 2	
Max input AC Voltage Max input DC Voltage Signal Mains configuration AC Output Max Output AC Voltage Max power (kVA/kW) DC Output Max Power Max Power	128 ADC
Max input DC Voltage Mains configuration AC Output Max Output AC Voltage Max power (kVA/kW) DC Output Max Power 2	175 VAC
Mains configuration 2 AC Output Max Output AC Voltage 2 Max power (kVA/kW) 6 DC Output Max Power 2	58 VDC
AC Output Max Output AC Voltage 2 Max power (kVA/kW) 6 DC Output Max Power 2	230/400VAC 3 phase (Y)
Max Output AC Voltage 2 Max power (kVA/kW) 6 DC Output Max Power 2	(1)
Max power (kVA/kW) 6 DC Output Max Power 2	240 VAC
DC Output Max Power 2	6 / 4.8
Max Power 2	-
Current (negation una)	24000 W
Current (maximum)	500 ADC
Max voltage 5	58 VDC
Max power 2	24 kW
Battery Distribution	
Breaker positions up to	2
Breaker rating up to 2	250 A
LVBD	/es
DC Load Distribution	
Breaker positions up to	L4
Breaker rating up to 6	63 A
LVLD	/es
AC Load Distribution	
Number of breakers 1	10
Breaker rating, up to	L0:00 AM
Other	
Operating temperature -	-40 – 55 °C
Dimensions	
Dimensions WxHxD (mm)	
Dimensions WxHxD (inch)	182 x 311 x 432 mm
Mounting dimensions	482 x 311 x 432 mm 18.98 x 12.24 x 17.01 "
Design Standards	18.98 x 12.24 x 17.01 " 19" / 7U / 432 Width (Inch) / Height (U) /
O .	18.98 × 12.24 × 17.01 "
ingress riolection (ir)	18.98 x 12.24 x 17.01 " 19" / 7U / 432 Width (Inch) / Height (U) /

Benefits

The total DC output can be configured up to 24kW DC load where the limitation for AC load is set to max 6kVA.

The flexible AC input can be configured as 1 phase or 3 phase, booth for IT and TN network, where the AC output is limited to 1 phase TN network. With this configuration a galvanic isolation between AC input/output is secured.



- 230 Vac single phase input
- 400 Vac three phase input
- 48 Vdc input/output
- Single phase output
- Max 6kVA AC output
- Max 24kW DC output
- 1 pole AC distribution option
- · 2 pole AC distribution option
- -48 Vdc distribution option
- · Built in transfer technology
- 150% overload capability, 15s
- 600% quick trip current, 20ms
- Hot pluggable
- Smartpack2 controller
- Smartpack S controller



Rectiverter Power Core 6kVA AC 16,8kW DC

The Rectiverter building block combines both AC and DC feed into one common unit. Simultaneously it provides AC backup power for 230 Vac loads, and 48 Vdc power for DC loads and battery charging.

OVERVIEW	
Input	
Current (maximum)	128 ADC
Max input AC Voltage	475 VAC
Max input DC Voltage	58 VDC
Mains configuration	230/400VAC 3 phase (Y)
AC Output	
Max Output AC Voltage	240 VAC
Max power (kVA/kW)	6 / 4.8
DC Output	
Max Power	16800 W
Current (maximum)	350 ADC
Max voltage	58 VDC
Max power	16.8 kW
Battery Distribution	
Breaker positions up to	2
Breaker rating up to	200 A
LVBD	Yes
DC Load Distribution	
Breaker positions up to	14
Breaker rating up to	63 A
LVLD	Yes
AC Load Distribution	
Number of breakers	10
Breaker rating, up to	10:00 AM
Other	
Operating temperature	-40 – 55 °C
Dimensions	
Dimensions WxHxD (mm)	482 x 267 x 432 mm
Dimensions WxHxD (inch)	18.98 x 10.51 x 17.01 "
Mounting dimensions	19" / 6U / 432 Width (Inch) / Height (U) /
•	Depth (mm)
Design Standards	
Ingress Protection (IP)	20

Benefits

The total DC output can be configured up to 16,8kW DC load where the limitation for AC load is set to max 6 kVA. The 3phase TN network input balance the load between DC output and 1phase AC output to reduce the input circuit breaker for the system.



- · 400 Vac three phase input
- 48 Vdc input/output
- Single phase output
- Max 6kVA AC output
- · Max 16,8kW dc output
- 1 pole AC distribution option
- 2 pole AC distribution option
- -48 Vdc distribution option
- · Built in transfer technology150%
- overload capability, 15s
- · 600% quick trip current, 20ms
- Hot pluggable
- · Smartpack2 controller
- Smartpack S controller



Flatpack2 Integrated power system

The combination of cost-effective design, power density and reliability makes the Flatpack2 a product family that truly stands out and provides unparalleled network availability.

(OVERVIEW	
	Input	
	Max input AC Voltage	300 VAC
	Mains configuration	230VAC Single phase;230VAC 3 phase (Δ);230/400VAC 3 phase (Y)
	DC Output	
	Current (maximum)	600 ADC
	Max voltage	48 VDC
	Max power	32 kW
	Battery Distribution	
	Breaker positions up to	6
	Breaker rating up to	250 A
	LVBD	Yes
	DC Load Distribution	
	Breaker positions up to	18
	Breaker rating up to	125 A
	LVLD	Yes
	Other	
	Operating temperature	-40 – 60 °C
	Storing temperature	-40 – 85 °C
	Dimensions	
	Dimensions WxHxD (mm)	482 x 267 x 380 mm
	Dimensions WxHxD (inch)	18,98 x 10,5 x 14,96 "
	Weight	5 kg

Benefits

The versatility of the Flatpack2 rectifier means that it can be used in a wide variety of 48 Vdc and 24 Vdc applications across the globe



- · Highest efficiency in minimum space
- Digital controllers
- Heat management
- · Unique connection
- Global approvals



Rectiverter Integrated/Standalone 3kVA 1phase, 48 VDC

The Rectiverter integration/standalone system can be used in applications where a 230/115 Vac backup is needed in parallel with the 48 Vdc backup.

OVERVIEW	
Input	
Current (maximum)	64 ADC
Max input AC Voltage	240 VAC
Max input DC Voltage	58 VDC
Mains configuration	230VAC Single phase
AC Output	
Max Output AC Voltage	240 VAC
Max power (kVA/kW)	3 / 2.4
DC Output	
Voltage (adjustable range)	43 – 58 VDC
Current (maximum)	50 ADC
Max voltage	58 VDC
Max power	2.4 kW
DC Load Distribution	
LVLD	No
AC Load Distribution	
Number of breakers	3
Breaker rating, up to	10:00 AM
Other	
Operating temperature	-40 – 55 °C
Dimensions	
Dimensions WxHxD (mm)	482 x 44 x 395 mm
Dimensions WxHxD (inch)	18.98 x 1.73 x 15.55 "
Mounting dimensions	19" / 1U / 395 Width (Inch) / Height (U) / Depth (mm)
Weight	6 kg
Design Standards	
Ingress Protection (IP)	20



Benefits

It can also be used as a standalone system connected to any available 48 Vdc. The system can be integrated into an Eltek DC system and connected to the same controller as the 48 Vdc system.

The total output power for both AC and DC output is limited to max 4kW AC and DC output limits can be set according to the attached load, where the limitation for AC load is set to max 3kVA.

- 230 Vac single phase input
- 48Vdc input/output
- Single phase output
- Max 3kVA AC output
- Max 2,4kW DC output
- 2 pole AC distribution
- 3*IEC sockets on front
- Built in transfer technology
- 150% overload capability, 15s
- 600% quick trip current, 20ms
- Operates in parallell with Flatpack2



Rectiverter Integrated 2U, 48VDC 6kVA 1ph

The Rectiverter 2U 19" Integrated System can be used as a standalone system with bulk AC & DC outputs in telecom applications where a 230/115 VAC and 48 VDC backup is needed.

OVERVIEW	
Input	
Current (maximum)	128 ADC
Max input AC Voltage	275 VAC
Max input DC Voltage	58 VDC
Mains configuration	230VAC Single phase
AC Output	
Max Output AC Voltage	240 VAC
Max power (kVA/kW)	6 / 4.8
DC Output	
Max Power	4800 W
Voltage (adjustable range)	43 – 58 VDC
Current (maximum)	100 ADC
Max voltage	58 VDC
Max power	4.8 kW
Other	
Cooling	Single fan
Operating temperature	-40 – 55 °C
Dimensions	
Dimensions WxHxD (mm)	482 x 89 x 400 mm
Dimensions WxHxD (inch)	19 x 3.5 x 15.7 "
Mounting dimensions	19" / 2U / 400 Width (Inch) / Height (U) / Depth (mm)
Weight	9.4 kg

Benefits

The total output power for both AC and DC is limited to a total 8 kW. AC and DC output limits can be set according to the connected load, where the limitation for AC load is set to max 6 kVA and for DC load to max 4,8 kW.As additional options, the measuring and signaling can be widely extended with the I/O Monitor CAN node.



- · Compact design and simple installation
- Single phase 230 or 115 VAC input/output
- 48 VDC input/output
- House up to 4 rectiverter modules
- 8kW total AC + DC output
- Max 6 kVA AC output
- Max 4,8 kW DC output
- Bulk feed outputs AC + DC
- Built in transfer technology
- 150% overload capability, 15s
- 600% quick trip current, 20ms
- Hot pluggable
- Smartpack2 touch controller
- Programmable multipurpose inputs and outputs



Flatpack S 24V 2U 3R 2-pole

This small power dense system is purely based on pluggable breakers and rectifiers and can easily be configured to fit your required application, even in field. The combination of Flatpack S HE rectifiers and Smartpack S controller ensures safe, reliable and environmental friendly operation. With its shallow depth and flexibility the Flatpack S 2U 2-pole system fits most cabinets and is thereby excellent as replacement unit.

Input	
Max input AC Voltage	305 VAC
Max input DC Voltage	300 VDC
Mains configuration	230VAC Single phase;230VAC 3 phase (Δ) ;230/400VAC 3 phase (Y)
DC Output	
Current (maximum)	125 ADC
Max voltage	24 VDC
Max power	3 kW
Battery Distribution	
Breaker positions up to	1
Breaker rating up to	100 A
LVBD	Yes
DC Load Distribution	
Breaker positions up to	10
Breaker rating up to	20 A
Other	
Operating temperature	-40 – 65 °C
Dimensions	
Dimensions WxHxD (mm)	482.5 x 89 x 250 mm
Dimensions WxHxD (inch)	19 x 3.5 x 9.84 "
Weight	7 kg
Design Standards	
Ingress Protection (IP)	20

Features

- · Complete system
- · Smartpack S controller hot pluggable
- · High efficiency rectifiers hot pluggable
- · 2-pole battery distribution
- Pluggable breakers
- Optional LVBD
- 2-pole load distribution
- 10 x 20A MCB positions
- · Pluggable breakers
- · Adv. control and monitoring
- · Embedded ethernet port
- 260mm system depth
- · Perfect as replacment unit
- 2U height
- Including distribution
- 19" wide
- Fit standard racks and cabinets
- · Global approvals



2-Pole HE Power System



Solar Extension Kit - 3U shelf solution

The Solar Extension Kit is a compact solution to house up to 4x Solar chargers and for use innew or existing Eltek power systems.

MODEL	2U SOLAR EXT. KIT	3U SOLAR EXT. KIT	
Part number	CTZ00000.1358	CTZ00000.1255	
POWER MODULES			
Flatpack2 Solar Charger 1)	Flatpack2 48/3200 HE Solar		
Peak efficiency	97 %		
Max no. of modules	Up to 2pcs	Up to 4pcs	
INPUT DATA (SOLAR CHARGER	3)		
Voltage (operating range)	85-420 V _{DC}		
Voltage (MPPT range) ²⁾	100-380 V _{DC}		
Voltage (start-up)	150 V _{DC}		
Maximum current	20.3 Apc		
Protection	Fuse, varistor for transient protection, too low, earth fault check during start	reversed polarity, shutdown when V _{IN} is -up	
PV CONNECTION PANEL			
Service switches for PV arrays	2 pcs 2-pole	4 pcs 2-pole	
MC4 connectors	4 pcs (2 pcs per one PV array)	8 pcs (2 pcs per one PV array)	
DC SPD (option)	Up to 2 pcs (Type 1+2)	Up to 4 pcs (Type 2)	
OUTPUT DATA			
Voltage (default)	53.5 V _{DC}		
Voltage (adjustable range)	42 3) - 57.6 VDC		
Max power, V _{IN} ≥ 170 V _{DC}	6400 W	12800 W	
Max current, @Vout = 48 VDC	133 A	266 A	
Protection	Overvoltage shutdown, short circuit p hot plug-in inrush current limiting	roof, high temperature,	
OTHER SPECIFICATIONS			
Alarms (Red LED)	High and low temperature shutdown, on output, Fan failure, Low voltage al	Converter Failure, Overvoltage shutdown arm, CAN bus failure	
Warnings (Yellow LED)		Low input voltage, Converter in power derate mode, Remote current limit activated, Input voltage out of range, flashing at overvoltage	
Normal (Green LED)	Input and output ok		
Operating temperature	-40 to +75 °C [-40 to +167 °F] 3)		
Storage temperature	-40 to +85 °C [-40 to +185 °F]		
Dimensions (W x D x H) 5)	482 x 384 x 89 (2U) mm	482 x 384 x 133 (3U) mm	
	[19 x 15.1 x 3.5 inch]	[19 x 15.1 x 5.3 inch]	
Weight (excluding modules)	Approximately 7 kg [15 lbs]	Approximately 10 kg [22 lbs]	
DESIGN STANDARDS	EN 60050 1:2006/A2:2012 FN 6026	8 4:2020/A14:2020 EN 62400 4:2040/ 0:2044	
Electrical safety		8-1:2020/A11:2020, EN 62109-1:2010/-2:2011	
EMC	ETSI EN 300 386 v1.3.2 EN 61000-6-1:2019, EN 61000-6-2:2 EN 61000-6-3:2007/A1:2011/AC:201		
Environment	ETSI EN 300 019-2-1 v2.3.1:2017 (Class 1.2) ETSI EN 300 019-2-2 v2.4.1:2017 (Class 2.3)		
	ETSI EN 300 019-2-3 v2.4.1:2015 (Class 3.2)		
	ETSI EN 300 132-2 v2.6.1:2019 Normal operating conditions as per IE conditions as per IEC 62040-5-3:201	EC 62040-5-3:2016 clause 4.2. Other operating	

Solar extension kit - 2U/3U shelf solution

The Solar extension kit is a compact solution to house up to 4x Solar chargers and to be use for new/existing Eltek power systems.

Specially designed with the MC4 connectors for cables from PV panels, service switches and optionally SPDs. The front and rear MC4 connection mechanism enables easy on-site installation into both outdoor and indoor enclosures.

Typical applications are Solar Autonomous and Hybrid power systems.







NetSure 502 Full DC Power System

Vertiv The NetSure 502 Series, a compact -48 volt 600 A DC power solution, features an advanced control unit, up to (17) positions for 2000 W high-efficiency eSure rectifiers, and a single or dual row distribution cabinet. [Spec #582136800]

OVERVIEW	
PRODUCT OVERVIEW	
Power Capacity	18 – 28.8 kW
Current Capacity	40 – 600 A
System Type	System
INPUT	
Input Voltage, Nominal	Single phase: 120 VAC, 208 VAC to 240 VAC
Input Voltage, Operational	Rectifier: (Single Phase) 85 VAC to 300 VAC
Input Connections	Molex for AC cords or hardwiring
Equipment Dimensions (H x W x D)	Distribution cabinet: 4U x 19" x 13.19" or 8U x 23" x 13.19", Module shelf: 2U x (19" or 23") x 13.19"
Access	Top or rear cabled with front and top access
OUTPUT	
Output Voltage, Nominal	-48V DC
Output Voltage, Operational	Rectifier: -42 VDC to -58 VDC
Output Capacity	Up to 600 amps at -48 VDC plus redundancy
Peak Efficiency	Rectifier: 96.5%
Load Circuit Breakers / Fuses	$1\mbox{-}250$ A E/M or E bullet nose breakers, $3\mbox{-}100$ A TPS/TLS fuses, $18\mbox{/}100$ A to 15 A GMT fuses
PHYSICAL CHARACTERISTICS	
Battery Circuit Breakers / Fuses	1A to 250 A E/M or E breakers, 50A to 2,00A GJ Breakers, 3A to 100A TPS/TLS fuses
Options	Optional Battery Trays, SM-Temp, BAU, Relay racks
ENVIRONMETAL & STANDARD COMPLIANCE	
Control and Monitoring	NCU with remote access via web browsers, TCP/IP & SNMP as standard
Operating Temperature	-40 °C to +65 °C (40 °F to +149 °F)
Safety Compliance	UL Listed (cUL)
EMC Compliance	Conforms to FCC rules Part 15, Subpart B, Class B; EN55022 Class B, radiated and conducted; GR-1089 Issue 4

c #582136800]

Benefits

- Minimize total cost of ownership with high efficiency eSure rectifiers
- Reduce the need for specialized cooling with rectifier high temperature operation
- Deploy the power system where 120VAC is the only input option
- Keep your network power source secure with encrypted controller communication
- Extend the life of your batteries with the available battery management tools
- Achieve energy savings with ECO mode, even at low loads
- · Have peace of mind with this UL and NEBS power system
- Minimize installation time and drive planned network conformity with customer configuration files

- · High efficiency 96.5% efficient eSure rectifiers
- NetSure[™] rectifiers are designed to operate from -40 °C to +80 °C, providing a minimum 1750 W output at 65 °C
- Selectable AC Input 120 VAC, 208 to 240 VAC
- Supports Ethernet, SNMP V2 & SNMP V3, ModBus and RS485 communication interfaces
- · Battery Management Capability
- · ECO Energy Savings Mode
- · NEBS Level 3 compliance and UL Listed
- · Custom configuration file capability





NetSure 5100 582137100

The NetSure 5100 Series, a compact -48/+24 volt 600 A DC power solution, features an advanced control unit, up to (29) positions for 2000 W high-efficiency eSure rectifiers or 1500 W -48 V to +24 V converters or 2000 W solar converters.

PRODUCT OVERVIEW	
Power Capacity	18 – 28.8 kW
Current Capacity	40 – 600 A
System Type	System
INPUT	
Input Voltage, Nominal	Single phase: 120 VAC, 208 VAC to 240 VAC
Input Voltage, Operational	Rectifier: (Single Phase) 85 VAC to 300 VAC
Input Connections	Molex for AC cords or hardwiring
Equipment Dimensions (H x W x D)	Distribution cabinet: 4U x 19" x 13.19" or 8U x 23" x 13.19", Module shelf: 2U x (19" or 23") x 13.19"
Access	Top or rear cabled with front and top access
OUTPUT	
Output Voltage, Nominal	-48V DC
Output Voltage, Operational	Rectifier: -42 VDC to -58 VDC
Output Capacity	Up to 600 amps at -48 VDC plus redundancy
Peak Efficiency	Rectifier: 96.5%
Load Circuit Breakers / Fuses	$1\mbox{-}250$ A E/M or E bullet nose breakers, 3-100 A TPS/TLS fuses, 18/100 A to 15 A GMT fuses
PHYSICAL CHARACTERISTICS	
Battery Circuit Breakers / Fuses	1A to 250 A E/M or E breakers, 50A to 2,00A GJ Breakers, 3A to 100A TPS/TLS fuses
Options	Optional Battery Trays, SM-Temp, BAU, Relay racks
ENVIRONMETAL & STANDARD COMPLIANCE	
Control and Monitoring	NCU with remote access via web browsers, TCP/IP & SNMP as standard
Operating Temperature	-40 °C to +65 °C (40 °F to +149 °F)
Safety Compliance	UL Listed (cUL)
EMC Compliance	Conforms to FCC rules Part 15, Subpart B, Class B; EN55022 Class B, radiated and conducted; GR-1089 Issue 4



Benefits

- Minimize total cost of ownership with high efficiency eSure rectifiers
- Reduce the need for specialized cooling with high temperature operation
- Deploy the power system where 120VAC is the only input option
- Keep your network power source secure with encrypted controller communication
- Extend the life of your batteries with the available battery management tools
- Achieve energy savings with ECO mode, even at low loads
- · Have peace of mind with this UL and NEBS power system
- Minimize installation time and drive planned network conformity with custom configuration files
- Reduce your off-grid generator runtime with solar / hybrid input
- Optimize your battery capacity with priority and non priority load shedding
- Solar / hybrid capability reduces grid dependency

- High efficiency 96.2% efficient eSure rectifiers
- Wide operating temperature range rectifiers function at -40 °C to +80 °C (up to +65 °C without de-rating)

 Colorate to A Colorate (ACC) (ACC)
- Selectable AC input 120VAC, 208 to 240 VAC
- Supports Ethernet, SNMP V2 & SNMP V3, ModBus and RS485 communication interfaces
- · Battery management capability
- · ECO energy savings mode
- NEBS Level 3 compliance and UL Listed
- · Custom configuration file capability
- Solar / hybrid capability
- Up to two disconnect levels (LVD)



19" wide Vertiv™ NetSure™ 7100 Compact systems are designed for rapid deployment in telecom access network applications requiring a reliable and high density power supply up to 500 A at -48 VDC. High operating temperature (350A system rating at +65°C) coupled with high operational efficiency has a positive impact on climate system dimensioning in outdoor enclosure applications.

PRODUCT OVERVIEW	
Power Capacity	24 kW
Current Capacity	500 A
System Type	Rack or cabinet mount
INPUT	
Input Voltage, Nominal	100 to 240 VAC
Input Voltage, Operational	120/208/240 VAC, single phase (operational)
Input Connections	Terminal block (up to 6 AWG) for individual rectifier feed
Access	Front and rear for installation, Front for operation and maintenance
OUTPUT	
Output Voltage, Nominal	-48 VDC
Output Capacity	350 A @ +65 °C; 500 A @ +40 °C
Load Circuit Breakers / Fuses	(21) (6 on Load 1 bus, 6 on Load 2 bus, 9 on Priority bus)
PHYSICAL CHARACTERISTICS	
Weight	19.1 to 24.5 kg
Height	6-8U (266 to 347 mm)
Width	483 mm
Depth	395 to 420 mm
ENVIRONMETAL & STANDARD COMPLIANCE	
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Safety Compliance	UL 62368 Recognized

Benefits

- Optimize total cost of ownership with high-efficiency eSure™ rectifiers that deliver efficiency up to 98% over a wide operating range
- Increase battery discharge time with priority or non-priority low voltage disconnect option
- Support colocation with (3) separate load branches
- Extend the life of your batteries with the available battery management tools
- Keep your network power source secure with optional encrypted controller communication
- Have peace of mind with this UL Listed and NEBS certified power system

NetSure 7100 Compact



- High power density system 19"W, 6RU high (outdoor), 8RU high (indoor)
- 120VAC, 208VAC, 240VAC individual single phase input per rectifier
- Priority based load shedding options
- DC output surge protection
- Remote communications via TCP/IP security option available
- · Mounts in an enclosure or relay rack with optional battery trays



NetSure VMS Retrofit

High efficiency eSure™ rectifiers provide dramatic reductions in energy costs and advanced features for legacy Vortex Mini Series (VMS) DC power systems.

PRODUCT OVERVIEW	
Power Capacity	1000 W
Current Capacity	20.8A
INPUT	
Input Voltage, Nominal	85 VAC to 300 VAC operating range
Equipment Dimensions (H x W x D)	9.8 x 3.4 x 10.9 (inches) / 226 x 86 x 277 (mm)
OUTPUT	
Output Voltage, Nominal	-42.0 VDC to -58.0 VDC
PHYSICAL CHARACTERISTICS	
Weight	2.7 kgs
Height	226 mm
Width	86 mm
Depth	277 mm
ENVIRONMETAL & STANDARD COMPLIANCE	



Benefits

- Extend the life of legacy systems and improve efficiency to save cost
- Keep your plant up and running during installation and maintenance with hot swappable modules
- Compatible with or without original rectifiers in same system

- Plugs into existing rectifier slots without any electrical or mechanical adjustments to existing shelf or system
- NetSure reliability improves mean time between failure (MTBF)
- Enhanced controller features including single point adjustment and remote access via Ethernet
- Enables connection to remote monitoring via SNMP and web



NetSure 2100 Series

The NetSure 2100 Series is designed for wireless access and customer premise applications offering unmatched temperature performance and high power density.

PRODUCT OVERVIEW	
Power Capacity	3 kW
Current Capacity	48 A
System Type	Subrack
INPUT	
Input Voltage, Nominal	120, 208, 240 VAC
OUTPUT	
Output Voltage, Nominal	-48 VDC
PHYSICAL CHARACTERISTICS	
Weight	5
Height	43.6
Width	482
Depth	279
ENVIRONMETAL & STANDARD COMPLIANCE	
Operating Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Safety Compliance	UL 1801 Recognized
EMC Compliance	Conforms to FCC rules Part 15, Subpart B, Class B and EN55022 Class B, radiated and conducted

Benefits

- Easy to deploy in small spaces with a compact-sized 19" wide shelf, less than 11" deep
- Optimize total cost of ownership with >95% high-efficiency eSure™ rectifiers
- Save CapEx and OpEx on climate systems in outdoor applications with rectifiers that operate from -40°C to +70°C
- Reduce the need for costly site visits with intelligent remote access and monitoring over standard protocols

- · High density subrack delivers up to 3kW in 1U rack space
- Wide operating voltage range, 85-300VAC
- · All breakers are accessible from the front side
- Integrated distribution
- · Advanced intelligent battery management system
- Built-in communication & dry contact ports that enable remote monitoring





NetSure 801 DC Power System

High-density power systems for core applications.

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PRODUC	CT OVERVIEW	
Power C	Capacity	1 GW
Current	Capacity	20,000 A
System	Type	Systems
INPUT		
Input Vo	oltage, Nominal	480 VAC, three phase
Input Vo	oltage, Operational	304 VAC to 530 VAC
Equipm	ent Dimensions (H x W x D)	Power bay (H x W x D): 7' x 24.375" x 30", Distribution bay (H x W x D): 7' x 30" x 30"
Access		Front and rear
OUTPUT		
Output	Voltage, Nominal	48 VDC
Output	Voltage, Operational	42.0 VDC to 58.0 VDC
Output	Capacity	5800 W rectifier
Peak Eff	ficiency	93%
Load Ci	rcuit Breakers / Fuses	TPS/TLS, TPL Fuses or GJ/218-Style breakers
ENVIROI	NMETAL & STANDARD COMPLIANCE	
Control	and Monitoring	MCA controller with remote control via Ethernet (Telnet, web page, SNMP and TL1)
Operati	ng Temperature	-32 °F to 104 °F (-0 °C to 40 °C)
Safety C	Compliance	UL Listed 1801, cUL, NEBS Level 3
EMC Co	ompliance	Comfors to FCC rules Part 15, Subpart B, Class A and EN55022 Class A

Benefits

- Save floor space with this high density, compact DC power system
- Modular design minimizes CapEx by allowing incremental system growth
- Get your site up and running quickly with easy installation and operation
- Reduce unnecessary travel to site with remote services that enable you to identify issues and take corrective actions
- Safely and easily adapt to new load requirements with live distribution and circuit breaker changes



- Up to 20,000 amp plant capacity in a compact footprint
- High efficiency 3-phase rectifiers 93% peak, 92.6% at full load per bay
- Distribution bays are rated for 6000 amps in continuous operation
- Remote access using Ethernet (Telnet, web pages, SNMP and TL1)
- NEBS Level 3 compliance; UL Listed to UL 1801



NetSure 8200 (582140000)

The NetSure ™ 8200 Series offers compact combination bays, complementary distribution bays, and stand-alone power bays that integrate easily with existing AC infrastructure. Designed to provide reliable - 48 VDC power and distribution at core facilities, the digital NetSure 8200 plant leverages high-efficiency 200 amp rectifiers powered from 480 VAC or 208 VAC. This series offers versatile solutions to meet the needs of your central office, mobile switching office, cable headend, or data center deployment.



DDODLIGT OVERVIEW	
PRODUCT OVERVIEW	4.000
Power Capacity	1 MW
Current Capacity	20,000 A
System Type	Power Bay
INPUT	
Input Voltage, Nominal	208 or 480 VAC, 3-phase
Input Voltage, Operational	408-528 VAC to 176-264 VAC
Equipment Dimensions (H x W x D)	Combo Bay List 101 and List 111 93.5"x24"x30",830 lbs., Combo Bay List 102 and List 112 84"x24"x 30", 830 lbs., AC Distribution Bay (PDSC): 84" x 1
Access	Front and rear
OUTPUT	
Output Voltage, Nominal	48 VDC
Output Voltage, Operational	42.0 VDC to 58.0 VDC
Output Capacity	12,000 W rectifier
Peak Efficiency	96.1% (480 VAC), 95.7% (208 VAC)
Load Circuit Breakers / Fuses	TPS/TLS, TPL Fuses or GJ/218-Style breakers
ENVIRONMETAL & STANDARD COMPLIANCE	
Control and Monitoring	NCU controller
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Safety Compliance	UL Listed (UL1801), CSA 22.2 (No. 225), c UL, NEBS Level 3

Benefits

- Free up floor space with a design that delivers power conversion, distribution, and control and monitoring in a single bay
- Dedicate existing cabling and breakers to a single rectifier via an integrated AC distribution panel.
- Minimize installation time with built-in monitoring for all distribution devices
- Advanced security features available including HTTPS/SSL, complex login credentials, or Radius user authentication
- Numerous connectivity options support integration into a wide variety of networks – IPv4, IPv6, SNMP V2c and V3, Modbus, TL1 and multi-browser compatibility
- Easily monitor and adjust system parameters through an intuitive user interface available remotely and locally on a 10-in touchscreen display
- NEBS Level 3 certified

- Single frame design provides power conversion, distribution, control and monitoring in a small footprint
- Modular distribution design includes built-in automatic monitoring for all distribution devices
- Integrated internal DC bus, in combination bays, eliminates costly overhead busses and eases plant expansion
- Optional integrated AC
- Power Distribution Service Cabinet (PDSC) for protected bulk AC service feeds with 22 or 65 kAIC breakers
- Supports distributed and bulk plant architectures



NetSure 7100 Series

The modular NetSure™ 7100 Series power system with 3500 watt or 2000 watt rectifiers and 1500 watt DC to DC converters provides up to 4000 amps of current for -48 volt systems with up to 520 amps at +24 volts. The basic components of the power system include the NetSure Control Unit (NCU), module mounting shelf assemblies which house the rectifiers and converters, and a modular distribution cabinet.

INPUT	
Input Voltage, Nominal	208 VAC to 277/480 VAC
Input Voltage, Operational	176 VAC to 305/528 VAC
Input Connections	Terminal Blocks or Line Cords
Equipment Dimensions (H x W x D)	D Cabinet:12.2" (7RU) to 33.25" (19RU) x 23" x 20.1", R Shelves:1.7" (1RU) or 5.2" (3RU) x 23" x 20.1"
Access	Front for installation, operation and maintenance, Rear for multi-bay, rectifier shelf or battery tray expansion
OUTPUT	
Output Voltage, Nominal	-48 VDC
Output Voltage, Operational	42.0 VDC to 58.0 VDC
Output Capacity	Rectifier: 3500 W or 2000 W, Converter: 1500 W, Shelf: 21 kW or 12 kW @ 48 VDC, 4.5 kW @ 24 VDC, System: 200 kW @ 48 VDC, 12.5 kW @ 24 VDC
Peak Efficiency	96.50%
Load Circuit Breakers / Fuses	Up to (104) Bullet CBs, 1 to 300 A, Up to (24) GJ/218 CBs, 100 to 800 A, Up to (16) TPH Fuses, 70 to 600 A, Up to (16) TBL-B Fuses, 70 to 250 A
PHYSICAL CHARACTERISTICS	
Battery Circuit Breakers / Fuses	Up to (24) Bullet CBs, 1 to 300 A, Up to (4) GJ/218 CBs, 100 to 800 A, Up to (4) TPH Fuses, 70 to 600 A /up to 200A CB Disconnect mounted on each batt
Options	Low Voltage Load Disconnect, Low Voltage Battlery Disconnect, Battery Shunt, Battery Trays – Precabled, Bulk Output Panel, Up to (68) Temp Sensors
Weight	90.9 to 295.5 kg
Height	2134 mm
Width	584.2 to 711.2 mm
Depth	510.5 to 711.2 mm
ENVIRONMETAL & STANDARD COMPLIANCE	
Control and Monitoring	Dual Ethernet, Embedded web pages, SNMP, Modbus, Battery Management, Programmable Relay Outputs and Binary Inputs, Energy Management
Operating Temperature	-40 °C to +40 °C (-40 °F to +104 °F)
Safety Compliance	UL 1801 Listed ("c UL"), NEBS Level 3
EMC Compliance	FCC Class B



Benefits

- · Optimized total cost of ownership
- · Safe and simple to install and operate
- Enhanced real-time visibility into what's powering your network
- Includes DHCP Ethernet connection and local access via an additional port with a default IP address
- Meets strict agency standards for safety and reliability
 Reduce energy cost with high-efficiency eSure rectifiers
- Low initial investment with scalable configuration that allows for incremental system growth
- · High reliability with N+1 configuration redundancy

- Advanced controller offers battery management, AC service monitoring, site monitoring and configuration management
- Remote access supports HTTPS with multiple browsers, network element management via Modbus or SNMP (v2 or v3)
- Dual Ethernet port option
- · Modular design with hot-swappable rectifiers and distribution units
- High system efficiency over 96%
- Multi-bay configurations
- Multiple AC input configurations
- NEBS Level 3 certified and UL Listed to UL subject 1801



NetSure 8100DB (582140600)

The NetSure 8100DB distribution bay features high capacity, modularity, and simplified installation.

PRODUCT OVERVIEW	
Power Capacity	240 kW (8 load) or 180 kW (6 load)
Current Capacity	4800 A (8 load) or 3600 A (6 load)
System Type	Distribution Bay
INPUT	
Input Voltage, Nominal	48 VDC
Input Voltage, Operational	42.0 VDC to 58.0 VDC
Access	Top and bottom
OUTPUT	
Output Voltage, Nominal	48 VDC
Output Voltage, Operational	42.0 VDC to 58.0 VDC
Load Circuit Breakers / Fuses	TPS/TLS, TPL, GMT Fuses or Bullet Circuit Breakers
PHYSICAL CHARACTERISTICS	
Weight	73 – 193
Height	2134
Width	660 – 762
Depth	406 -609
ENVIRONMETAL & STANDARD COMPLIANCE	
Control and Monitoring	Digital metering with remote control over Modbus or SNMP
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Safety Compliance	NEBS level 3 compliance, meets or exceeds all relevant GR1089, GR63, UL, cUL specifications

Benefits

- Efficiently address power demand today and tomorrow with scalable power systems that can be safely adjusted during live operation
- Reduce unnecessary travel to site with remote services that enable you to identify issues and take corrective actions
- Safely and easily adapt to new load requirements with live distribution and circuit breaker changes

- · Power supply and load distribution optimization
- Safe system expansion with live distribution and circuit breaker changes
- NEBS Level 3 certified





NetSure 802 DC Power System

The expanded NetSure™ 802 Series introduces separate, stand-alone power and distribution bays complementing the system's compact combination bays and integrating easily with existing AC infrastructure.

PRODUCT OVERVIEW	
Power Capacity	1 GW
Current Capacity	20,000 A
System Type	Power Bay
INPUT	
Input Voltage, Nominal	208 VAC to 480 VAC; three phase
Input Voltage, Operational	408-528 VAC to 176-264 VAC
Equipment Dimensions (H x W x D)	Combo Bay List 1 and List 11 93.5" x 24" x 30", 830 lbs., Combo Bay List 2 and List 12 84" x 24" x 30", 830 lbs., AC Distribution Bay (PDSC): 84" x 1
Access	Front and rear
OUTPUT	
Output Voltage, Nominal	48 VDC
Output Voltage, Operational	42.0 VDC to 58.0 VDC
Output Capacity	12,000 W rectifier
Peak Efficiency	96.1% (480 VAC), 95.7% (208 VAC)
Load Circuit Breakers / Fuses	TPS/TLS, TPL Fuses or GJ/218-Style breakers
ENVIRONMETAL & STANDARD COMPLIANCE	
Control and Monitoring	MAC controller with optional monitor LMS1000
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Safety Compliance	UL Listed (UL1801), CSA 22.2 (No. 225), c UL, NEBS Level 3

Benefits

- Free up floor space with a design that delivers power conversion, distribution, and control and monitoring in a single bay
- Significantly reduce cabling and installation costs with an optional integrated internal DC bus
- Integrated AC Power Distribution Service Cabinet (PDSC) enables you to dedicate existing cabling and breakers to a single rectifier



- Up to 20,000 amp plant capacity in a compact footprint
- · 2000 amp rectification plus distribution in single bay
- Rectifier efficiency over 96%
- · Built-in automatic monitoring for all distribution devices
- Internal/external equipment monitoring
- Protected bulk AC service feeds with 22 or 65 kAIC breakers
- Remote access using Ethernet (Telnet, web pages, SNMP and TL1)
- Supports distributed and bulk plant architectures
- NEBS Level 3 compliance; UL Listed to UL 1801



Chapter V: Rectifier module and controller

Flatpack S 36V/1000W HE UI

Applications in these markets demand state of the art, reliable and safe DC power systems. Flatpack S delivers an industry leading power density in its segment, many safety functions, wide operating temperature range and superb reliability in its small 217mm deep housing.

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 305 VAC
Voltage DC (operating range)	85 – 400 VDC
DC Output	
Max Power	1000 W
Voltage (adjustable range)	33 – 45 VDC
Current (maximum)	27.8 ADC
Max voltage	45 VDC
Other	
Cooling	Single fan
Efficiency	95%
Operating temperature	-40 – 85 °C
Dimensions	
Dimensions WxHxD (mm)	72 x 41.5 x 217 mm
Dimensions WxHxD (inch)	2.83 x 1.63 x 8.54 "
Weight	0.85 kg
Design Standards	
Ingress Protection (IP)	20

Compact and reliable rectifier for rail and power utilities applications

Used in the 3U rack with Smartpack S controller, the Flatpack S rectifiers cover 2 to 8kW applications using a minimum of space, less than 18 liters, and low heat dissipation.



- Small
- Short
- Power dense, 26 W/inch3
- High efficiency
- OR-ing protection on output
- · Wide AC and DC input range
- Hot pluggable
- Voltage keying
- · Rail EMC certification
- Global compliance (CE, UL)



Flatpack S 24V/1000W SIL3 OVP

Flatpack S delivers high power density, wide temperature range and superb reliability in its small 210 mm deep housing. The Flatpack S 24V/1000W SIL3 OVP is targeted Safety and Automation Systems (SAS) in offshore and process industry requiring SIL rated overvoltage protection on DC output.

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 305 VAC
Voltage DC (operating range)	85 – 305 VDC
DC Output	
Max Power	1000 W
Voltage (adjustable range)	41.7 – 21.5 VDC
Current (maximum)	28 ADC
Max voltage	21.5 VDC
Other	
Cooling	Single fan
Efficiency	92.50%
Operating temperature	-40 – 85 °C
Dimensions	
Dimensions WxHxD (mm)	72 x 41.5 x 217 mm
Dimensions WxHxD (inch)	2.83 x 1.63 x 8.54 "
Weight	0.85 kg
Design Standards	
Ingress Protection (IP)	20

Compact high efficiency rectifiers for marine, offshore and process industry applications

Used in the 3U rack with Smartpack S controller, the Flatpack S rectifiers cover 2 to 8kW applications using a minimum of space, less than 18 liters, and low heat dissipation.



- Small
- Short
- · Power dense, 26 W/inch3
- High Efficiency (HE)
- OR-ing protection on output
- SIL3 rated overvoltage
- Protection on output
- Hot pluggable
- Voltage keying



Flatpack2 48V/3000W HE

The combination of innovative design, efficiency and reliability makes the Flatpack2 HE stand out. Increasing network speed demands flexible and expandable DC power solutions. The Flatpack2 HE rectifiers are your key building blocks for future needs.

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 305 VAC
DC Output	
Max Power	3000 W
Voltage (adjustable range)	43.2 – 57.6 VDC
Current (maximum)	62.5 ADC
Max voltage	57.6 VDC
Other	
Cooling	Single fan
Efficiency	96.20%
Operating temperature	-40 – 75 °C
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 × 1.63 × 12.78 "
Weight	1.95 kg

The most reliable high efficieny rectifier in the industry!

With an efficiency up to 96.5%, the losses have been reduced by 50% compared to the current industry standard. In a global perspective, considering the high energy consumption in the telecom industry.

This technology breakthrough is not only reducing operational cost for the operators, but it can also have a significant environmental impact.

- · Power dense, up to 33 W/inch3
- High efficiency
- · Proven reliability
- Application flexibility 2kW-3MW
- Global compliance
- Patented HE technology





Flatpack2 48/2000 HE

The combination of innovative design, efficiency and reliability makes the Flatpack2 HE stand out. Increasing network speed demands flexible and expandable DC power solutions. The Flatpack2 HE rectifiers are your key building blocks for future needs

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 300 VAC
Voltage DC (operating range)	85 – 275 VDC
DC Output	
Max Power	2000 W
Voltage (adjustable range)	43.5 – 57.6 VDC
Current (maximum)	41.7 ADC
Max voltage	57.6 VDC
Other	
Cooling	Single fan
Efficiency	96.50%
Operating temperature	-40 – 75 °C
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 x 1.63 x 12.78 "
Weight	1.95 kg
Design Standards	
Ingress Protection (IP)	20
Certifications	
Marine	DNV 2.4 Valid for part no. 241115.105M

The most reliable High Efficieny rectifier in the industry!

With an efficiency up to 96.5%, the losses have been reduced by 50% compared to the current industry standard. In a global perspective, considering the high energy consumption in the telecom industry, this technology breakthrough is not only reducing operational cost for the operators, but it can also have a significant environmental impact.

- · Power dense, up to 33 W/inch3
- High efficiency
- Proven reliability
- Application flexibility 2KW-3MW
- Global compliance
- Patented HE technology





Flatpack2 48/2000 SHE

The Flatpack2 48/2000 Super HE is contributing to setting the new industry standard for efficiency in the DC power market. With an efficiency of 97.8% the Super HE is a premium rectifier particularly suitable for markets and applications where the energy is costly. In grid connected applications the payback time is down to 2 years compared to standard HE rectifiers, and in hybrid applications even faster.

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 264 VAC
DC Output	
Max Power	2000 W
Voltage (adjustable range)	43.5 – 57.6 VDC
Current (maximum)	41.7 ADC
Max voltage	57.6 VDC
Other	
Cooling	Single fan
Efficiency	97.80%
Operating temperature	-13 – 167 °F
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 x 1.63 x 12.78 "
Weight	4.52 lbs
Design Standards	
Ingress Protection (IP)	20

Super High Efficiency (SHE) Flatpack 1872000 SHE rectifier for Telecom Applications Super high efficiency – 97.8%

The Flatpack2 2000/48 Super HE is fully compatible with Flatpack2 and Flatpack2 HE systems and can replace any 2kW Flatpack2 module.



- High power density 33 W/inch3
- · Compatible with existing systems
- Global compliance
- Patented technology
- Hot pluggable



Flatpack2 60/3000 SHE

The Flatpack2 60/3000 Super HE is contributing to setting the new industry standard for efficiency in the DC power market.

OVERVIEW	
Input	
Voltage AC (operating range)	84 – 264 VAC
DC Output	
Other	
Cooling	Single fan
Efficiency	97.80%
Dimensions	
Dimensions WxHxD (mm)	109 x 44 x 327 mm
Dimensions WxHxD (inch)	4.29 x 1.61 x 12.78 "
Weight	2.05 kg
Design Standards	
Ingress Protection (IP)	20

Super High Efficiency (SHE) rectifier for Telecom applications

The Flatpack2 60/3000 Super HE is contributing to setting the new industry standard for efficiency in the DC power market.

With an efficiency up to 97.8% the Super HE is a premium rectifier particularly suitable for markets and applications where the energy is costly. In grid connected applications the payback time is down to 2 years compared to standard HE rectifiers, and in hybrid applications even faster.

The Flatpack2 60/3000 Super HE is fully compatible with Flatpack2 and Flatpack2 HE systems.

- Super High Efficiency up to 97.8%
- High power density 33 w/in3
- · Compatible with existing systems
- Global compliance
- · Patented technology
- Hot pluggable



Flatpack2 60/3000 SHE



Flatpack S 48V/1000W HE

The Flatpack S rectifiers incorporate telecom specifications, high efficiency, OR-ing protection on output and high power in a small, 217 mm deep box.

OVERVIEW	
Voltage AC (operating range)	85 – 300 VAC
Voltage DC (operating range)	85 – 250 VDC
DC Output	
Max Power	1000 W
Voltage (adjustable range)	43.5 – 57.6 VDC
Current (maximum)	20.9 ADC
Max voltage	57.6 VDC
Other	
Cooling	Single fan
Efficiency	95.50%
Operating temperature	-45 – 185 °F
Dimensions	
Dimensions WxHxD (mm)	72 x 41.5 x 217 mm
Dimensions WxHxD (inch)	2.83 x 1.63 x 8.54 "
Weight	1.87 lbs
Design Standards	
Ingress Protection (IP)	20
Certifications	
Marine	DNV 2.4 Valid for part no. 241122.105M

Compact HE rectifiers for small to medium telecom applications

Used in the 1U high, 2 or 3 rectifier positions power rack with Smartpack S controller and battery and load distributions, the Flatpack S rectifiers cover 2 to 5.4kW applications using a minimum of space, less than 6 liters, and low heat dissipation.



- Small
- Short
- Power density 26 W/inch3
- High efficiency
- OR-ing protection on output
- Hot pluggable
- Voltage and power keying



Flatpack2 48V/3000W

The Flatpack2 48V/3000W HE is installed in vast numbers all over the globe and has an unmatched proven field performance. This, in combination with an efficiency exceeding 95% and its high power density, provides a low total cost of ownership.

OVERVIEW	
DC Output	
Max Power	3000 W
Voltage (adjustable range)	43.2 – 57.6 VDC
Max voltage	57.6 VDC
Other	
Cooling	Single fan
Efficiency	95%
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 × 1.63 × 12.78 "
Weight	1.85 kg

Reliability, efficiency and power density

Power systems for the Flatpack2 48V/3000W HE can be designed with output power from 3kW to 3MW and can hence power any application in your network.

- Power dense, up to 33 W/inch3
- High efficiency
- Proven reliability
- Application flexibility 2kW-3MW
- Global compliance
- Patented HE technology





Flatpack2 220V/10A HE

Since the launch the Flatpack2 family has expanded into a wide selection of power ratings and voltages. Power systems up to the MW-range can be realized using the 10A model addressing small and larger modular data centers' power needs.

•	
OVERVIEW	
Input	
Voltage AC (operating range)	85 – 305 VAC
DC Output	
Max Power	2800 W
Voltage (adjustable range)	10 – 198 VDC
Current (maximum)	280 ADC
Max voltage	198 VDC
Other	
Cooling	Single fan
Efficiency	95.50%
Operating temperature	-40 – 167 °F
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 × 1.63 × 12.78 "
Weight	4.3 lbs
Design Standards	
Ingress Protection (IP)	20

Reliable high efficiency rectifier for industrial applications

220 Vdc power systems provide an excellent alternative to traditional AC UPS providing significant efficiency and reliability improvements.

With 220 Vdc, standard components, cables and distribution can be used andmost IT equipment designed for 208/230 Vac can be connected directly to the 220 Vdc bus.

- · Proven reliability
- High power density
- High efficiency
- Application flexibility 2kW to multicabinet installations
- Accepts DC input (DC/DC converter)
- Global compliance (CE, UL)
- · Marine and offshore certifications
- Patented technology
- Digital controllers





Flatpack2 110-125/2000 HE

Since the launch the Flatpack2 family has expanded into a wide selection of power ratings and voltages.

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 300 VAC
Voltage DC (operating range)	85 – 300 VDC
DC Output	
Max Power	2000 W
Voltage (adjustable range)	89.2 – 171.6 VDC
Current (maximum)	16.7 ADC
Max voltage	171.6 VDC
Other	
Cooling	Single fan
Efficiency	94%
Operating temperature	-40 – 167 °F
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 x 1.63 x 12.78 "
Weight	4.3 lbs
Certifications	
Marine	DNV 2.4 Valid for part no. 241115.805M

Reliable high efficiency rectifier for industrial applications



- Proven reliability
- · High power density
- Application flexibility 2kw to multicabinet installations
- Accepts DC input (DC/DC converter)
- Global compliance (CE, UL)
- · Marineand offshore certifications
- Patented technology
- · Digital controllers



Flatpack2 24V/1800W HE

The combination of innovative design, efficiency and reliability makes the Flatpack2 HE stand out. Compared to older technologies with even poorer efficiency an investment in a Flatpack2 HE system is repaid in a few years by the reduced operating cost.

OVERVIEW	
Input	
Voltage AC (operating range)	85 – 300 VAC
Voltage DC (operating range)	85 – 300 VDC
DC Output	
Max Power	1800 W
Voltage (adjustable range)	21.7 – 28.8 VDC
Current (maximum)	75 ADC
Max voltage	28.8 VDC
Other	
Cooling	Single fan
Efficiency	95%
Operating temperature	-40 – 167 °F
Dimensions	
Dimensions WxHxD (mm)	109 x 41.5 x 327 mm
Dimensions WxHxD (inch)	4.29 x 1.63 x 12.78 "
Weight	4.3 lbs
Design Standards	
Ingress Protection (IP)	20
Certifications	
Marine	DNV 2.4 Valid for part no. 241115.205M

Reliable high efficiency rectifier for industrial applications

The Flatpack2 modular concept has a lot of benefits compared to traditional solutions in the industry. It has high efficiency; less power consumption and heat dissipation. The overall Size and footprint of cabinet is 50% of Thyristor Controlled Size. Modular Hot Plug-in Construction allows redundancy, n+1, n+2 configurations.

It's easy to do repairing with MTTR< 5 minutes. Very high MTBF > 350000 hours, wide input AC Voltage and frequency range. Possibility to build combined systems with rectifiers, DC/DC converters and inverters controlled by one controller.

- Digital controllers
- Heat management
- · OR-ing protection on output unique connection
- Global approvals





Smartpack2 Touch

Distributed control system

new Smartpack2 Touch controller offers much more than its delicately designed exterior suggests. It will be for power system managers what the smart phone is for people in general: so powerful and yet so simple to use it becomes an essential part of daily life.

New features and look on a well-tested control platform Eltek's

The Smartpack2 Touch is the next generation controller, and its the only controller that you need. It supports all your equipment, Eltek, Delta or 3rd party, and it has the highest security rating.

- Touch screen High contrast, high resolution color touch display for easy user-menu navigation
- 2x can bus for internal power system communication, 2x usb hosts, 2x ethernet, rs-232 & amp
- rs-485 serial ports for 3rd party equipment monitoring
- Visual leds and buzzer for local alarms (major, minor, power on)
- · Monitoring and control via responsive web interface on ethernet ports
- · SNMP protocol: Comprehensive content on set, get and traps
- 6 programmable outputs for "traditional" remote monitoring.
- Expandable outputs with I/O monitor can nodes
- 6 programmable multipurpose inputs ("digital inputs" or analog signals).
- Expandable inputs with i/o monitor can nodes
- Comprehensive logging
- · Backup of critical control features in basic unit
- · Automatic battery monitoring and test
- Battery lifetime indication
- Battery used and remaining capacity (ah or %)
- User defined alarm grouping(boolean logic for grouped alarms)
- Uploading and downloading of configuration files
- Comprehensive generator/hybrid/dc solar system control and monitoring features
- And much more...



Smartpack2 Touch



Smartpack S

The Smartpack S covers all control and monitoring needs of small to medium telecom and industrial DC power systems. Status and configuration is fully available through the display locally, or through the ethernet plug both remote or locally.

Compact, rich-featured, hot swappable, all-in-one controller

Designed for the Flatpack S system platform, the Smartpack S finds its way into many space restricted application. Used in the 1U high, 265mm deep power racks, Smartpack S offers comprehensive monitoring and control of a 2-3kW system occupying less than 6 liters.

- Graphical 2.2" tft high contrast, high resolution color display for easy navigation in user menu
- · Ethernet for remote or local monitoring and control via web browser
- SNMP protocol with trap, set and get on ethernet. email of trap alarms
- 6 programmable relay outputs
- 6 programmable multi-purpose inputs ("digital inputs" or analog signals).
- · Comprehensive logging
- · Automatic battery monitoring and test
- · Battery quality SoH based on test results and more





Smartpack R Controller

Future fit power. It is a simple idea with tremendous effect: Replace your old first-generation Smartpack controller with the Smartpack R to make your power system ready for a high-speed, high-capacity and connected tomorrow. This retrofit will bring your existing power system in line with current requirements, prolong its lifetime and thereby reduce both the lifetime operating costs and the need for new investments in power.

A smarter retrofit controller

The Smartpack R is a replacement for the first generation Smartpack 1 controllers, manufactured and sold between 2005 to 2018, meant first and foremost for retrofitting of mid-range Eltek power systems from that period. It has the same form factor, i.e. the same dimensions and connections as the original Smartpack 1 and is fully backwards compatible.

- · Backwards compability
- Form, fit, function compatible with legacy eltek smartpack controller Ethernet
- IPv4/v6, responsive html5 web interface, snmpv3, modbus tcp, radius, security penetration testedSystem capabilities
- All eltek power modules, including rectiverters and can nodes such as fleximonitorTelecom site monitoring
- Serial ports/usb: usb b-type, usb a-type host for dongles, wifi, 4g modems, bluetooth, flash drives, etc. rj-11 w/rs-232/rs-485 w/ modbus rtu slave for scada and modbus rtu master for data collection from 3rd party equipment with generic configurable protocol for smartmeters, etc. and fixed protocols for li-ion batteries etc.





Micropack system

The Micropack system is convection cooled, designed for less power hungry applications, but still with system functionality options to match any requirements. Use as stand alone or in a flexible off the shelf configurable system. The Micropack Power System extends your network one step further. With load ranges typically between 120W and 1000W, and in 12, 24 and 48V options, the system is perfect for a great variety of applications.

Benefits

The Micropack system is convection cooled, designed for less power hungry applications, but still with system functionality options to match any requirements. Use as stand alone or in a flexible off the shelf configurable system.

The Micropack Power System extends your network one step further. With load ranges typically between 120W and 1000W, and in 12, 24 and 48V options, the system is perfect for a great variety of applications.

- Compact and shallow (149 mm deep)
- · Din rail mountable
- On-site configurable
- · Off the shelf delivery
- Stand-alone option (w/alarm relay)
- · Plug-in breakers or bulk output
- Accepts 85 300V AC/DC input
- 12, 24-30, 48 Vdc output versions
- · Ethernet for remote and local monitoring and control via WEB Browser
- SNMP protocol with TRAP, SET and GET on Ethernet. Email of TRAP alarms
- 3 digital programmable relay outputs 3 programmable multipurpose inputs





Com pack

"All-in-one" plug-in controller. Comprehensive functionality in a small box designed for small range power systems.

"All-in-one" plug-in controller

"All-in-one" plug-in controller. Comprehensive functionality in a small box designed for small range power systems.



- · Remote monitoring via ethernet
- SNMP (v3,v2c,v1)
- Web pages
- · E-mail of logs and alarms3 configurable relays3 multipurpose inputs
- Temperature
- Symmetry
- Digital Input2 LVD controlls (Ivbd+IvId)12V,24V,30V,48V & amp
- 60V SupportedBattery monitoring
- Auto/periodic test
- · Capacity/quality estimationEltek software supported
- Eltek Network Utility (ENU)
- MultiSite Monitor
- Power Suite



Chapter VI: Industrial UPS

Vertiv Brand Liebert Online UPS GX4 5KVA 6KVA 8KVA 10KVA flexible solutions for protect rack mount equipment

Specification

item	value	
Place of Origin	China	
	Guangdong	
Brand Name	Vertiv	
Model Number	GXT 4 UPS	
Output Power	5KW/6KW/8KW/10KW	
Output Type	Triple	
Input Voltage	120/208VAC at 120 degrees	
Output Voltage	120/208VAC @ 120 degrees	
Output Frequency	40/70HZ	
Brand	Vertiv	
Product Name	Online UPS	
Model Number	GXT 4 series	
Place of Origin	China	
Warranty	24 months	
Efficiency	99%	
Power factor	0.8	
Color	Black	
Package	cartons	
Weight	34kg	





N-2K
220V ~ 50/60HZ
10.2A
220V
9.1A 1600W
97%-99%
190*320*390mm
300*440*500mm
< 9kg
-33 to 55°C
-40 to 70°C
< 3000m
built-in fan, forced convection





New Switching Netsure 731 CK2 48V, 1000A DC power supply system with rectifier R48-3000A3 or R48-3000E3 ,controller :M522S

Essential details	3		
Place of Origin:	Guangdong, China		
Mode <mark>l Nu</mark> mber.	Netsure 731 CK2	Output Power.	>500W
Output Type:	Single	Input Voltage:	220V
Output Voltage:	48V	Output Frequency:	50/65HZ
Output Current:	1000A	Product Name:	Power Supply Cabine
Certification:	CE ROHS	Warranty:	12 Months
Efficiency:	93%/96%	Size:	600*400*1600mm
Weight:	1 <mark>1</mark> 0kg	Model:	Netsure 731 CC2-X2
MOQ:	1 Pc	Input voltage:	80~300vac



NetSure 731 CK2



Hipulse U series 80-500KVA UPS

power		80KVA/72kW 100KV	4/90kW 120KVA/108kV	6 pulses		160KVA/14	14kW	200KVA/180	kW	300KVA/2	70kW	400KVA/360kW 500KVA/450kW	
		6 pulses		6 pulses 12	pulses 6 pulses 12	pulses 6 pulses 1	2 pulses 6 pulses	12 pulses 6 pulses 1	2 pulses				12 pulses
hysical paramet	ters												
/Vidth (mm)		900	900	900	1540	1250	1640 1740	855×190204855×190	0 855×1900	1640	2280	2280	2640
Depth × Heigh	ht (mm)	855×1900	855×1900 855×190	0 855×1900 855×	1900 855×1900 855	5×1900						855×1900	855×1900
Weight (kg)	nouit	900	900	900	1400	1200	1750	1200	1850	1600	2550	2200 2400	2900
Characteristi	ics (Rectifier)												
Rated input v	oltage						380/400/415V	AC, three-phase three	e-wire				
Rated operati	ing							50/60Hz					
frequency Inp	out						±159	(25% adjustable)					
voltage range	e Input						45	Hz~65Hz					
frequency rar	nge Input						Up to 0.99 (v	vith harmonic filter)					
ower factor	Input current						<4.5% (wit	h harmonic filter)					
narmonics (T	HDi) Input power						Yes, 5-3	800 seconds can be set					
Soft start fund	clion Rectifier output cha	racteristics											
Charger output	t voltage regulation							1%					
accuracy DC ri	ipple voltage							ÿ1%					
characteristic	s (inverter)												
nverter outp	out voltage						380/400/415V	AC, three-phase four-	-wire				
output powe	er factor							00kW per 100KVA)					
voltage	sleady						10000	5% typical					
state stability								5% typical					
Transient volta	ige transient						ÿ 20ms	(peak method)					
acovery time I	nverter overload					When the power i	actor is 0.9, 110% fo	or 1 hour, 125% for 10 mi	inutes, 150% for 60	seconds			
capability with 100% equalization 4100% 4100%													
Une ven measure	unevenness under load	1						ÿ1.5%					
otal harmonics	load 100% non-							<1%					







High Frequency Online UPS HJ Series Three in Three Out online ups 220vac 40KVA 60KVA 80KVA 100KVA 200KVA 400KVA 600KVA UPS

model				Black	Gold HJ	Series 40	800	KVA		
Power, range	40 60	80	100 12	0 16	0 200	250 30	0 4	00 500	600 80	
Lost, into	- Contained of the	Land Co. Co.	inore in in-		an constant				inconversion and	
Standard transmission, incoming voltage		380 / 400 / 415Vac, 3 phase 4 line								
input voltage range					325 - 47	8Va c				
Standard transmission, entry frequency					50/60	Hz				
Input the frequency range					40-70	Hz				
Input current distortion (THD i)					±39	6				
Input power factor					=0.9	9				
DC function										
Number of batteries / group	12V batt default 3		0 to 34 option	al per g	roup,			38 to 48 op 0 by default		
DC ripple voltage					±15	%		77		
Lost, out										
Standard transmission, outgoing voltage				380	400 / 4	115Vac, 3 p	has	e 4 line		
Output power factor					0.9	/ 1.0 (Opt	iona	1)		
voltage adjustment				Typica nsient		dy state);	<5	% typica	l value	
Transient switching time					<20r	ns				
Phase voltage imbalance (balanced load)					+/- 1°					
Phase voltage imbalance (100% unbalanced load)					+/- 1.5					
T HDv			<2% (10	0% lin	ear load	d); <5% (10	00%	nonlinear	r load)	
bypass										
Bypass input voltage				380	400 / 4	15Vac, 3 p	has	e 4 line		
Bypass voltage range			-20	1% ~ +	15%, 0	thers can	be s	et by the	software	
Size / weight										
Wide X deep X high (mm)	300X750X850	3	50XB50X1000		900X100	processor and processor.	190	-	1400X1000X 1900	
weight (kg)	135 158	195	216 26	325	380	800 850	9	00 1050	1850 195	
Department, unified										
Frequency accuracy (internal clock)					±0.0	05%				
system effectiveness				> 9	96% (EC	O: up to 9	19%)	ē.		
Ring, environment										
working temperature					0~4					
Storage temperature						'C (with ba				
relative humidity					0 ~ 959	6, no cond	ensa	ition		
Maximum operating height					= At 1	,000 m ab				
Noise (1m)			<55db				<600	db	<65db	
IP levels of protection					IP 2	0			1830183	
standard	Compatible safety standards: C620401, UI1778, IEC609501, IE battery compatibility IEC62040 -2, design and test IEC62040-3									





Chapter VII: Lithium-ion battery

		Specification					
Item	Li-Cube-48V 100AH	Li-Cube-48V 150AH	Li-Cube-48V 200AH				
Battery Type	LiFePO4-rack mounted						
Normal Battery Voltage(Vdc)	51.2V	51.2V	51.2V				
Normal Capacity(25°C, 0.2C(WH)	5120WH	7680WH	10240WH				
Voltage window (Vdc)	44.8~58.4V	44.8~58.4V	44.8~58.4V				
Float Charge Voltage(Vdc)	55.2V	55.2V	55.2V				
Max.continue discharge current (A)	100	150	150				
Max.pulse discharge current (A)	200A 30Sec.	200A 30Sec.	200A 30Sec.				
Max.continue charge current (A)	50	75	100				
Cycle life(+25°C 0.2C 80% DOD)	> 3000Cycles						
Cell Equalizer Current(A)	1∼5M Max.						
Terminal		M6					
Storage temperature	0°C~30°C						
Storage duration	6months at 25°C						
Safety standard	UN38.3, IEC62619, MSDS, CE						
IP degree	IP20						
Noise(dB)	< 40dB(1 meter)						
Working Temperature	-10°C~+50°C						
Humidity	0~95% (no condensation)						
Sea Level(m)		=1500					
L×W×H(products size)mm	L475*W440*H176mm	L535*W440*H176 mm	L590*W483*H178mm				
Weight(NW Kg)	42.0Kg	56.0Kg	73.0Kg				









Customizable products









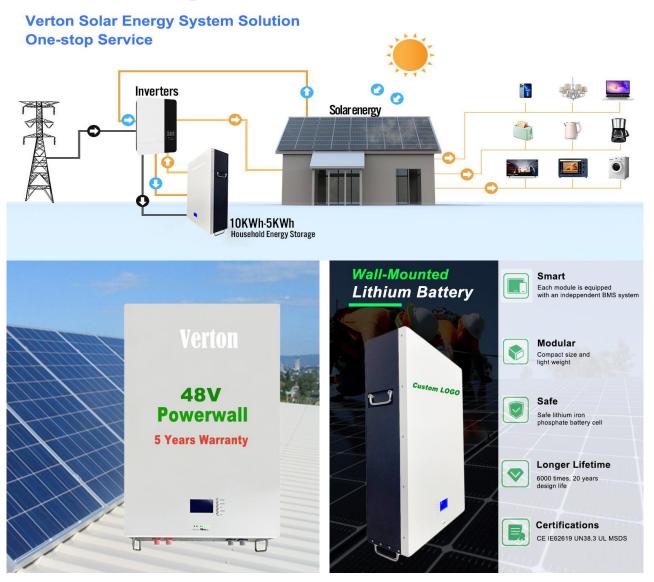






Lithium ion Battery

	Specification						
Items	25F100T	25F200	T 48100T	48200T			
Battery Type	LiFePO4-wall mounted						
Typical Capacity (Ah)	100Ah	200Ah	100Ah	200Ah			
Typical Voltage (V)	25.6	V		48V			
Connection	8S1P	8S2P	15S1P	15S2P			
Voltage Working Range (V)	22V-2	9V	41	V-55V			
Working Temperature(°C)	Charge: 0°C~+45°C,Discharge: -20°C~+60°C						
Storage Temperature(°C)	-20°C~+35°C						
Nominal Capacity (kWh)	2.56kWh	5.12kWh	4.8kWh	9.6kWh			
MAX.Charging Current(A)	100A	100A	100A	100A			
Max. Discharge Current(A)	100A	100A	100A	100A			
Cycle Life	≥5000						
SOC Accuracy	<8%						
Weight(kg)	32kg	54kg	42kg	86kg			
Dimensions(mm)	630x400x1	160mm	630x400x160mm 770x500x160m				
IP Grade			IP54				
Transportation SOC			60%				
Cooling	Nature						





Lithium ion Battery

	Specification									
Item	12v 100AH	12V 200AH	12V 300AH	24V 100AH	48V 50AH					
Battery Type	LiFePo4 pack									
Normal Battery Voltage(Vdc)	12.8v	12.8v	12.8v	25.6v	51.2v					
Normal Capacity(WH)	1280WH	2560WH	3600WH	2400WH	2400WH					
Float Charging Voltage(Vdc)	13.8V	13.8V	13.8V	27.6V	55.2V					
Terminal	M8									
Temp. for Discharging	-30°C~60°C									
Storage Duration	6 months at 25°C									
Safety Standard		UN38.3, EC62619, MSDS, CE								
IP degree		IP20								
Protection	Overcharge protection^ Overdischarge protection^ Overcurrent protection^ Shortciruiit protection、Over-temperatire protection									
Noise(dB)	< 40dB(1 meter)									
Working Temperature	-10~+50°C									
Humidity		0-	95%(no condensat	tion)						
Sea Level(m)			=1500							
DIMENSION	330*173*220mm	522*240*218mm	522*269*220mm	522*240*218mm	522*240*218mm					





Chapter VIII:Lead acid batteries

		Spec	cification				
Item	12V 7Ah	12V 9Ah	12v 55Ah	12v 100Ah			
Battery Type	Lead-acid						
Normal Battery Voltage(Vdc)	12v	12v	12v	12v			
Normal Capacity	7Ah	9Ah	55Ah	100Ah			
Terminal	F1/F2	F1/F2	F11(M6)	F12(M8)/F5(M8)			
Max. Discharge Current	70A (5 sec)	90A (5 sec)	550A (5 sec)	1000A (5 sec)			
Operating Discharge Temperature range	-20°C~60°C	-20°C~60°C	-20°C~60°C	-40°C~60°C			
Normal Operating Temperature Range	25 ±5 °C	25 ±5 ℃	25 ±5 ℃	25 ±5 °C			
Container Material	A.B.S. UL94- HB, UL94-V0 Optional.	A.B.S. UL94- HB, UL94-V0 Optional.	A.B.S. UL94-HB, UL94-V0 Optional.	A.B.S. UL94-HB, UL94-V0 Optional			
Weight	1.95kg	2.3Kg	16.2 Kg	29.0 Kg			
DIMENSION	151*65*94mm	151*65*94mm	291*106*230mm	328*172*215mm			





Lead-acid Battery

		Specification						
Item	12v 120Ah	12v 150Ah	12v 180Ah	12v 200Ah				
Battery Type		Le	ad-acid	1				
Normal Battery Voltage(Vdc)	12v	12v	12v	12v				
Normal Capacity	120Ah	150Ah	180Ah	200Ah				
Terminal	F12(M8)/F5(M 8)	F9(M8)	F9(M8)	F9(M8)				
Max. Discharge Current	1200A (5 sec)	1500A (5 sec)	1800A (5 sec)	2000A(5 sec)				
Operating Discharge Temperature range	-40°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C				
Normal Operating Temperature Range	25 ±5 °C	25 ±5 °C	25 ±5 °C	25 ±5 °C				
Container Material	A.B.S. UL94- HB, UL94-V0 Optional	A.B.S. UL94- HB, UL94-V0 Optional	A.B.S. UL94-HB, UL94-V0 Optional	A.B.S. UL94-HB, UL94-V0 Optional				
Weight	33.5Kg	39.5Kg	48Kg	52Kg				
DIMENSION	407*177*225mm	565*110*288m m	560*125*316mm	570*125*326mm				





Famous Brand Agency











Customer Distribution



Data source: Frost & Sullivan

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Shenzhen Xingda Shidai Technology Co. LTD

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https://xdnetpower.com/

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