



ECO GREEN ENERGY EU
The Future is Here

SUPER SPACK[®]

Best Solution of Battery

ECO GREEN ENERGY EU Home Energy Storage Systems (HESS)



2024 ECO GREEN HESS

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**ABOUT ECO GREEN
ENERGY
MANUFACTURER**

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ABOUT THE MANUFACTURER

Eco Green Energy Manufacturer is specialized in the sales and support of lithium-ion battery packs, battery systems for a wide range of power and stationary applications. Our partner founded by Xupai in 2018, their team has nearly ten years of experience in designing integrated power systems. The broad market/application expertise, technology approach and vertical integration enable them to deliver safe, reliable and innovative products to the worldwide market quickly.

2

Production facilities

32

Patents

50⁺

Engineers

152,000m²

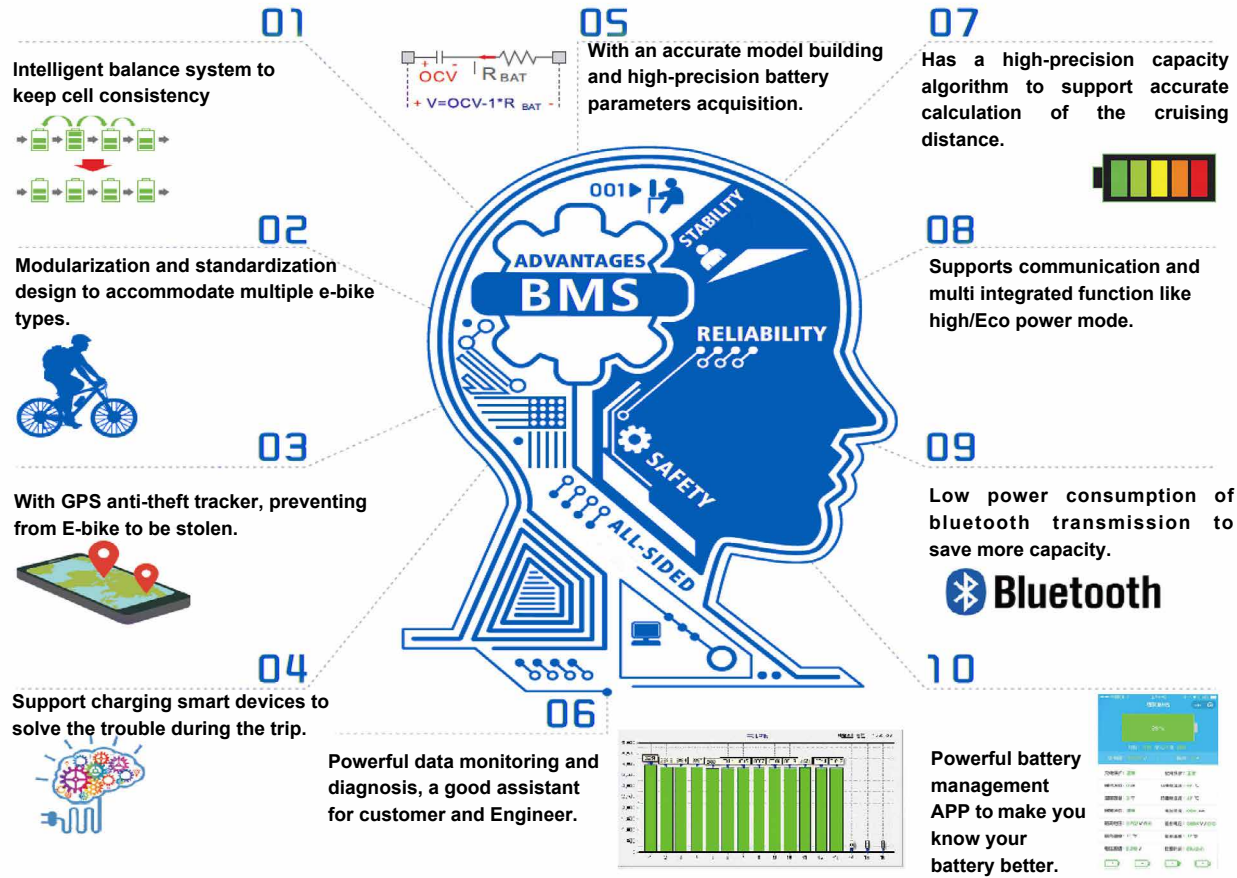
Floor area

2GWh

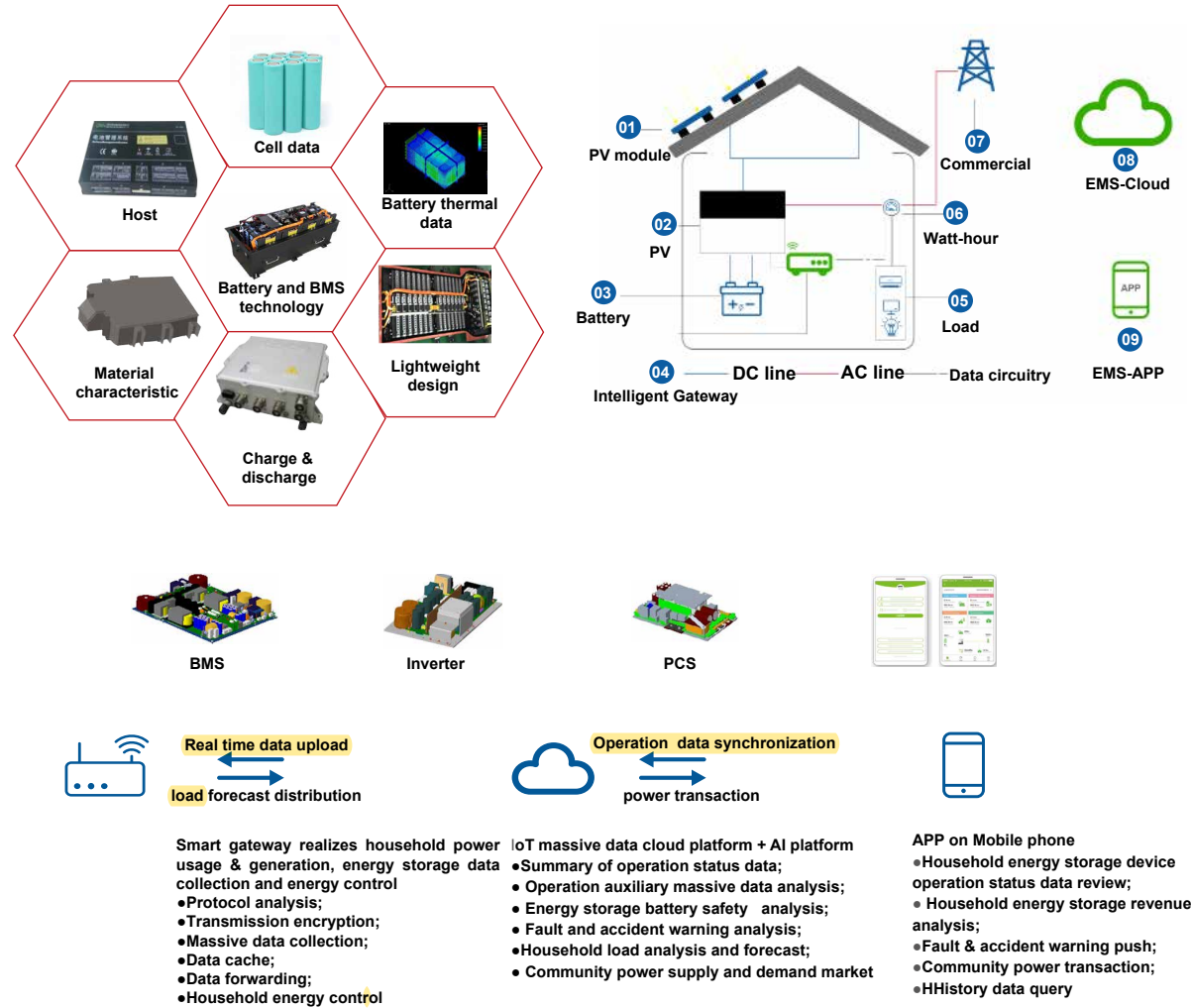
Annual production capacity



BMS R&D



SYSTEM INTEGRATION



The Eco Green Home Energy Storage Systems (HSSS) are safe, efficient, eco-friendly. It absorb and save solar energy for resident application. It store solar energy through PV panels at the daytime or store electricity power during the off-peak hours and powers to on/off-grid inverter at night or during on-peak hours. The solutions integrate lithium iron phosphate batteries with excellent BMS which can be expanded capacity on demand.



Improve financial performance

Monetize assets through new revenue streams, increased asset utilization, improved yield, and reduced operating costs.



Reduce your electricity bills

stores your surplus solar power and low-cost electricity from the grid, supplying your home more cost-effectively.



Increase renewable integration

Improve integration and maximize utilization of the energy generated from photovoltaics (PV) and wind turbines.



Help get to net zero

We can't control when the sun shines or wind blows, so energy storage is the key to unlocking 100% clean energy.



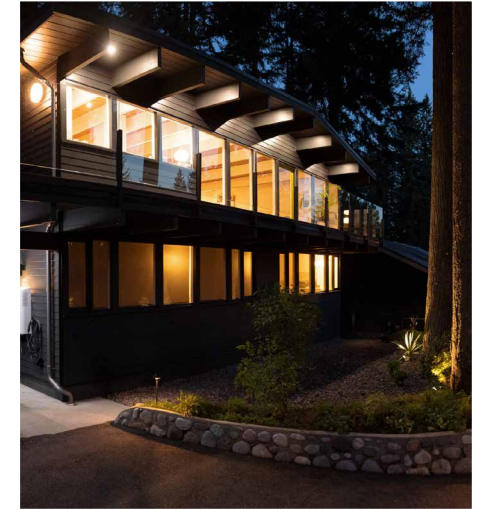
Green ecology

Clean energy should be a top global priority. Collaborate with us and let us accelerate the transition towards a greener future together



More usable energy

95% depth of discharge, pack level energy optimization



SELF POWERD



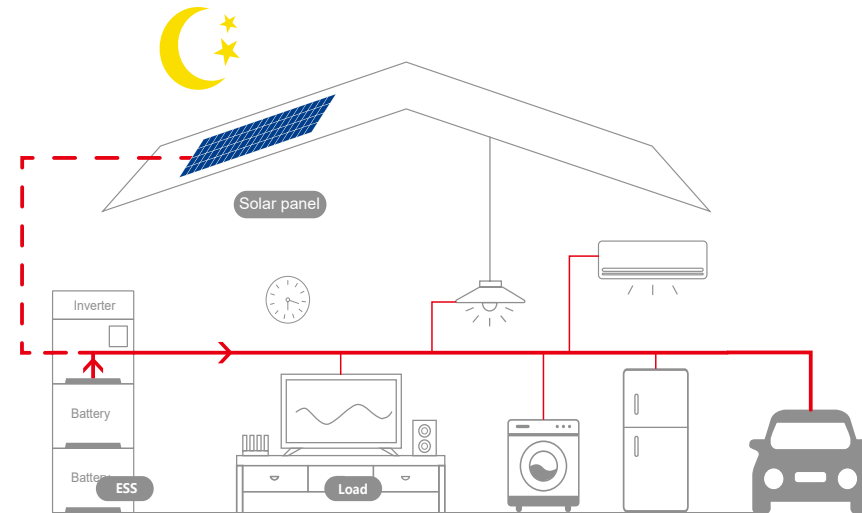
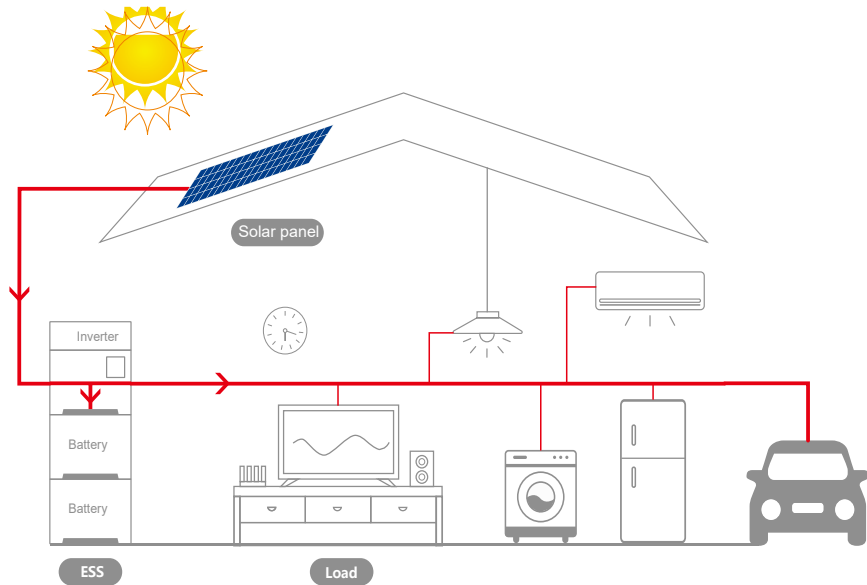
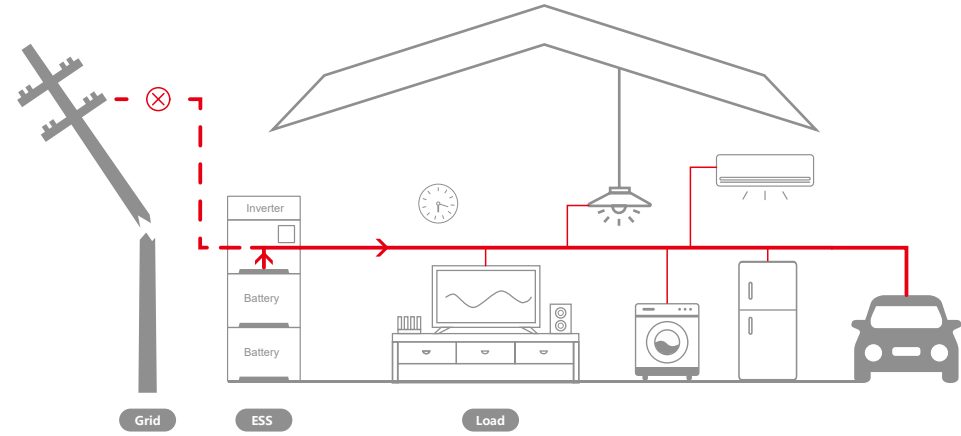
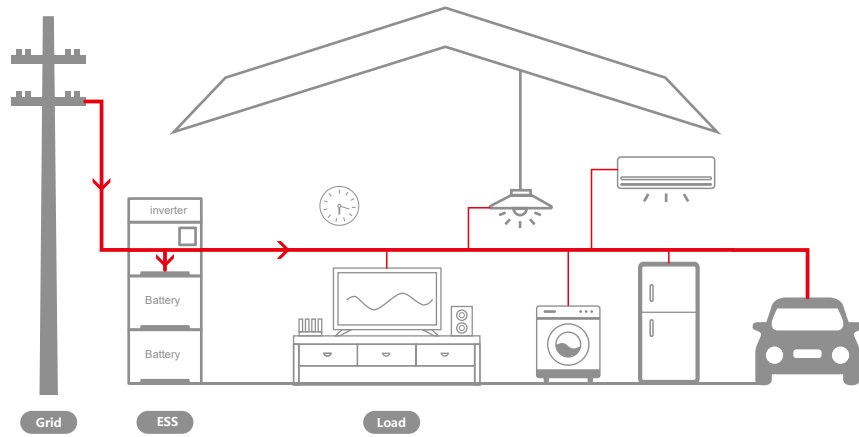
INDUSTRIAL AND NATURAL ISLAND



SEVERE ENVIRONMENT POWER

SOLUTIONS

Eco Green Energy low/high voltage of energy storage systems have been widely used in various application areas, such as lack of electricity, government electricity subsidy policy, off-peak electricity application or self-use.



ADVANTAGES

- Lithium iron phosphate battery.
- High safety and efficiency.
- Long cycle life: 6000cycles or 10+ years calendar life.
- Eco-friendly and renewable energy.



- Compact design, flexible and reliable to install.
- Advanced heat management technology.
- High voltage DC breaker is matched I²Rt, quick protection. Aerosol fire fighting(optional).

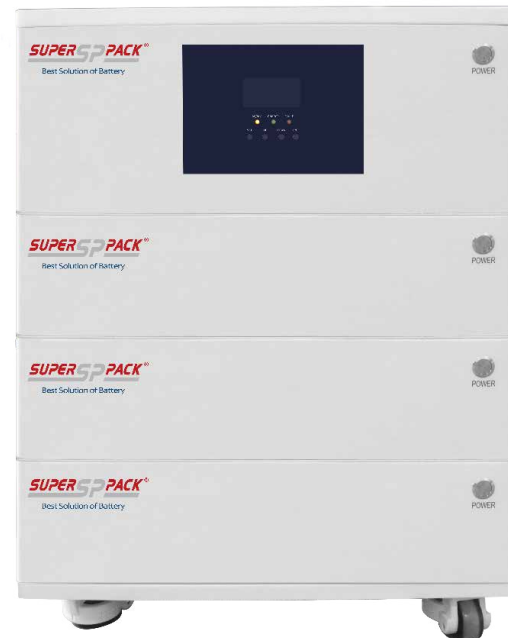
- Advanced BMS control.
- Modbus/CANbus is compatible with main brand.
- inverters. 10000 data record covers the whole life.
- Support 4G/Ethernet/WiFi/Bluetooth and remote.

- Wide operation temperature -20~60℃ .
- IP65. enclosure is available.
- Battery certification: UL1973,IEC62619, CE61000,
- UN38.3. Inverter certification:

5 KW All-in-One ECO Energy Storage Systems (with wheels)

The HESS integrated a solar hybrid inverter + MPPT charging controller + 5KWH 51.2V100AH LiFePO4

- battery modules. Can be expanded capacity from 1 to 4 modules for 5KWH,10KWH, 15KWH and 20KWH.
- Output single phase pure sine wave AC power, 230V/120V is available, 50Hz/60Hz (automatically
- detected). Suitable for a global market.
- Diverse working modes, can be used for solar energy storage, on/off-peak hours electricity application,
- government electricity subsidy.



5 KW All-in-One ECO Energy Storage System (Floor Mounted)

- The HESS integrated a solar hybrid inverter + MPPT charging controller + 5kWh 51.2V100Ah LiFePO4 battery modules.
- Can be expanded capacity from 1 to 3 modules for 5kWh,10kWh and 15kWh.
- Output: single phase, pure sine, AC , 230V / 120V is available, 50Hz / 60Hz (automatically detected).
- Suitable for a global market.



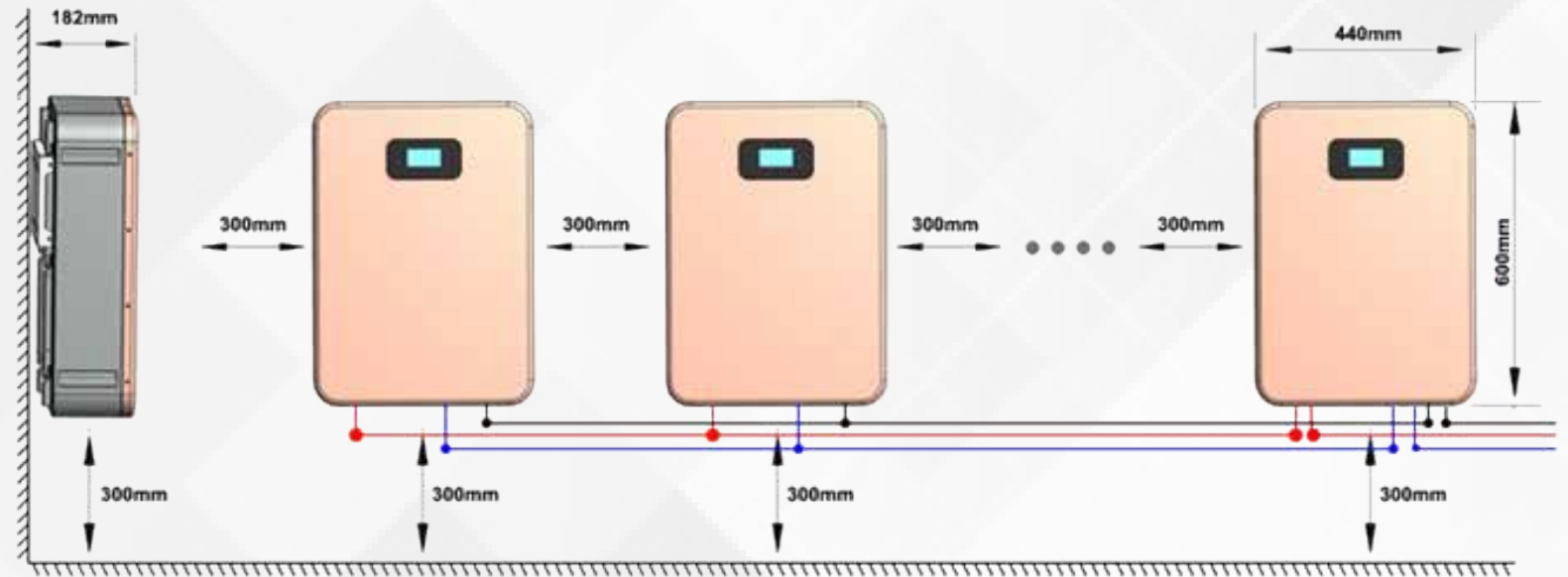
5 KWh Household ECO Energy Storage System

- The HESS built-in a solar inverter + MPPT charging controller + AC charger + LiFePO4
- battery pack Output: single phase, pure sine, AC. 230V/120V is available, 50Hz/60Hz.
- Rated output can be from 1.5KW to 5KW (Customized).
- On floor or wall-mounting is optional.
- Suitable for underdeveloped countries and market.



5 KWh Wall-Mounted ECO Storage Battery System

- 5 KWh 51.2V 100Ah LiFePO4 battery modules. Maximum output is 5 KW.
- Can be expanded capacity up to 15pcs in parallel. RS485 / CANbus, compatible with main brand inverters.
- Easy to install.



— DC Power -
— DC Power +
— Communication protocol

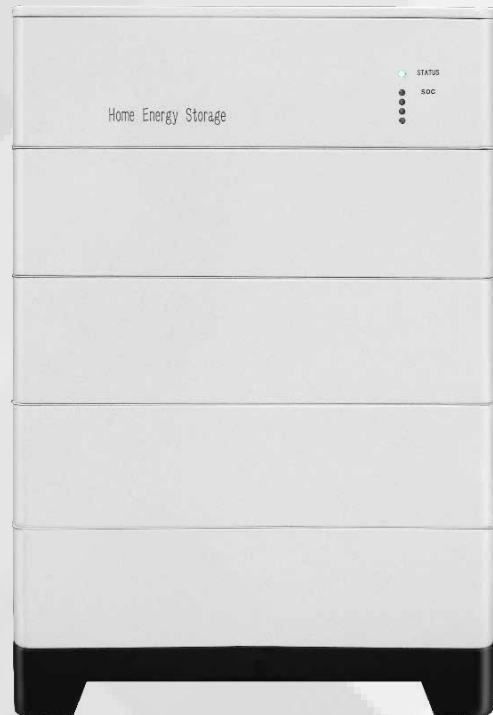
5 KWh Rack Mounted ECO Energy Storage battery

- 5 KWh 51.2V100AH LiFePO4 battery modules, compact design. Maximum output is 5 Kw.
- RS485/CANbus, compatible with main brand inverters. Maximum 15 pcs in parallel system.
- Easy to install.
- Suitable for indoor/outdoor solar energy storage.



10 KWh or 20 KWh ECO High Voltage Battery System

- 4pcs 51.2V50AH or 51.2V100AH LiFePO4 battery modules +1pcs HV DC controller to be 10kWh or 20kWh systems. Maximum output is 10KW or 20KW.
- 10KWH is suitable for 10KW and 20KWH for 20KW single phase or 3 phases on/off hybrid inverter.
- RS485/CANbus, compatible with main brand inverters.
- Easy to install.



512V ECO High Voltage Battery System

- 512V, 25kWh, 10 pcs battery modules in series + 1pcs HV controller. 51.2V50AH LiFePO4
- battery modules, compact design.
- RS485/CANbus, compatible with main brand inverters.
- Easy to install.
- Suitable for 3 phases on/off grid solar energy storage.



SPECIFICATIONS



Item	ECO SP-ESS-5K-5K-A1	ECO SP-ESS-5K-10K-A1	ECO SP-ESS-5K-15K-A1	ECO SP-ESS-5K-20K-A1
BATTERY				
Battery Module	1	2	3	4
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100Ah	200Ah	300Ah	400Ah
Weight	78Kg	127Kg	176Kg	225Kg
Dimension Lx DxH	560×480×420mm	560×480×570mm	560×480×720mm	560×480×870mm
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V			
Battery Working Voltage Range	44.8 ~ 57.6V			
Maximum Charging Current	100A			
Maximum Discharging Current	100A			
Designed Life-span	6000 cycles at 80%DOD			
Parallel Quantity	Maximum 4 modules			
Designed Life-span	10 years			
PV CHARGE				
PV Charging Current Range	MPPT			
Solar Charge Type	5KW			
Maximum Output Power	0~80A			
PV Operating Voltage Range	120~500V			
MPPT Voltage Range	120~450V			
AC CHARGE				
Maximum Charge Power	3150W			
AC Charging Current Range	0~60A (230V INVERTER); 0~40A (120V INVERTER)			
Rated Input Voltage	220/230Vac (230V INVERTER); 110/120Vac (120V INVERTER)			
Input Voltage Range	170~280Vac (230V INVERTER); 90~140Vac (120V INVERTER)			
AC OUTPUT				
Rated Output Power	5KW			
Rated Input Voltage	30A (230V INVERTER); 42A(120V INVERTER)			
Input Voltage Range	220V/230V (230V INVERTER); 110V/120V(120V INVERTER); 50Hz/60Hz (Automatically)			
Overload Current	35A (230V INVERTER); 45A(120V INVERTER)			

SPECIFICATIONS



Item	ECO SP-ESS-5K-5K-A2	ECO SP-ESS-5K-10K-A2	ECO SP-ESS-5K-15K-A2
BATTERY			
Battery Module	1	2	3
Battery Energy	5.12kWh	10.24kWh	15.36kWh
Battery Capacity	100Ah	200Ah	300Ah
Weight	83Kg	135Kg	187Kg
Dimension Lx DxH	600×165×920mm	600×165×1340mm	600×165×1760mm
Battery Type	LiFePO4		
Battery Rated Voltage	51.2V		
Battery Working Voltage Range	44.8 ~ 57.6V		
Maximum Charging Current	100A		
Maximum Discharging Current	100A		
Designed Life-span	6000 cycles at 80%DOD		
Parallel Quantity	3		
Designed Life-span	10 years		
PV CHARGE			
Solar Charge Type	MPPT		
Maximum Output Power	5KW		
PV Charging Current Range	0~80A		
PV Operating Voltage Range	120~500V		
MPPT Voltage Range	120~450V		
AC CHARGE			
Maximum Charge Power	3150W		
AC Charging Current Range	0~60A (230V INVERTER); 0~40A (120V INVERTER)		
Rated Input Voltage	220/230Vac (230V INVERTER); 110/120Vac (120V INVERTER)		
Input Voltage Range	170~280Vac (230V INVERTER); 90~140Vac (120V INVERTER)		
AC OUTPUT			
Rated Output Power	5KW		
Rated Input Voltage	30A (230V INVERTER); 42A (120V INVERTER)		
Input Voltage Range	220V/230V (230V INVERTER); 110V/120V (120V INVERTER); 50Hz/60Hz (Automatically); 50Hz/60Hz (Automatically)		
Overload Current	35A (230V INVERTER); 45A (120V INVERTER)		

SPECIFICATIONS



Item	ECO SP-ESS-1.5K-5KWH-E1
BATTERY	
Battery Module	LiFePO4
Battery Energy	5.5kWh
Nominal Voltage	25.6V
Nominal Capacity	230Ah
Standard Charging Current	20A
Maximum Charging Current	66A
Standard Discharge	40A
Maximum Discharge Current	100A
Maximum Output Power	2.5KW
Charging Cut-off Voltage	≤30.4V (3.8V/cell)
Discharge Cut-off Voltage	≥ 20.0V (2.5V/cell)
Cycle Life	1200cycles
Weight	85Kg
PV CHARGE	
Solar Charge Type	MPPT
Maximum Output Power	1100W
PV Charging Current Range	0~40A
PV Operating Voltage Range	30~100V
AC CHARGE	
Maximum Charge Power	600W
AC Charging Current Range	20A
Rated Input Voltage	110/120Vac
Input Voltage Range	29.2V
INVERTER	
Rated Output Power	1500W
Output Voltage /Frequency	110Vac/60Hz
Peak Output Power	3000W
DC Input Voltage Range	19.0~30.0V

SPECIFICATIONS



Item	ECO SP-ESS-5K-5K-E2
BATTERY	
Battery Module	LiFePO4
Battery Energy	5.12kWh
Battery Voltage	51.2V
Nominal Capacity	100Ah
Operating Voltage Range	44.8~58.4V
Dimensions (L x W x H)	500*165*650mm
Weight	60Kg
Maximum Charging Current	50A
Maximum Continuous Discharge Current	100A
Maximum Output Power	5KW
Cycle Life	6000 cycles at DOD80%
Parallel Quantity	Single use
Designed Life-span	10 years
PV CHARGE	
Solar Charge Type	MPPT
Maximum Output Power	5KW
PV Charging Current Range	0~80A
PV Operating Voltage Range	120~500V
MPPT Voltage Range	120~450V
AC CHARGE	
Maximum Charge Power	3150W
AC Charging Current Range	0~60A
Rated Input Voltage	220/230Vac
Input Voltage Range	170~280Vac
AC OUTPUT	
Rated Output Power	5KW
Maximum Output Current	30A
Frequency	50Hz
Overload Current	35A

SPECIFICATIONS



Item	ECO SP-ESS-5KWH-B1
BATTERY	
Battery Module	LiFePO4
Battery Energy	5.12kWh
Battery Voltage	51.2V
Nominal Capacity	100Ah
Operating Voltage Range	44.8~57.6V
Maximum Output Power	5KW
Maximum Charging Current	100A
Maximum Continuous Discharge Current	100A
Cycle Life	6000 cycles at 80%DOD
Dimensions (L x W x H)	440x182x600mm
Weight	54 Kg
Parallel Quantity	Maximum 15pcs
Designed Life-span	10 years
Installation	Floor Mounting
Communication	RS485/CANbus/Ethernet/WiFi
Matching with Inverters	MEGAREVO/GOODWE/GRWT/SAM/SUNGROW
Certification	UL1973, IEC62619, CE61000, UN38.3
Charging Temperature Range	0~50°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP54
Humidity	≤85%
Altitude	≤2000m
Application	In door
Inverter Choosing	On/Off Grid Single / 3 phases inverter
Heat Management	Air cooling

SPECIFICATIONS



Item	ECO SPF48V100-SM
BATTERY	
Battery Module	LiFePO4
Battery Energy	5.12kWh
Battery Voltage	51.2V
Nominal Capacity	100Ah
Operating Voltage Range	44.8~57.6V
Maximum Output Power	5KW
Maximum Charging Current	100A
Maximum Continuous Discharge Current	100A
Cycle Life	6000 cycles at 80% DOD
Dimensions (L x W x H)	482x370x175mm
Weight	42Kg
Parallel Quantity	Maximum 15pcs
Designed Life-span	10 years
Installation	Standard 19" power cabinet or rack
Communication	RS485/CANbus/Ethernet/WiFi
Matching with Inverters	MEGAREVO/GOODWE/GRWT/SAM/SUNGROW
Certification	UL1973, IEC62619, CE61000, UN38.3
Charging Temperature Range	0~50°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP20
Humidity	≤85%
Altitude	≤2000m
Application	In door / Out door
Inverter Choosing	On/Off Grid Single / 3 phases inverter
Heat Management	Air Cooling

SPECIFICATIONS



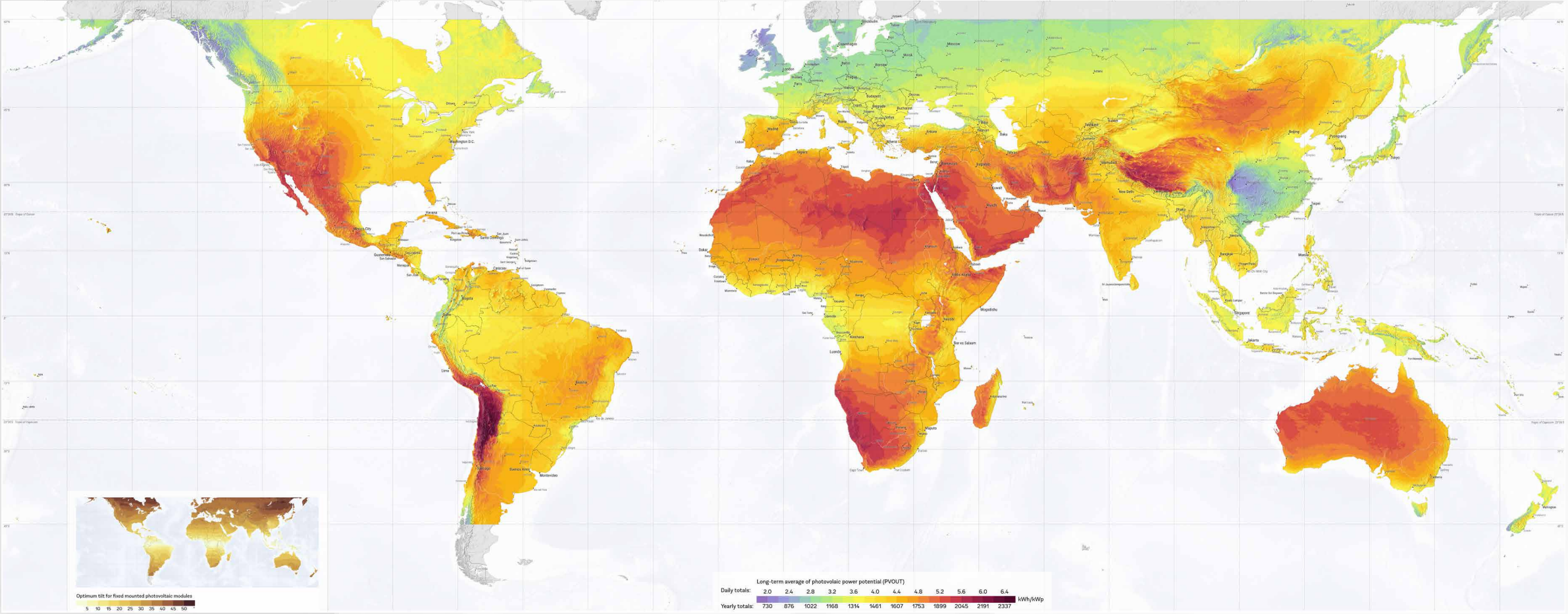
Item	ECO SPF204V50-HV	ECO SPF204V100-HV
BATTERY		
Battery Module	4pcs	4pcs
Battery Energy	10.24kWh	20.48kWh
Nominal Voltage	204.8V	204.8V
Nominal Capacity	50Ah	100Ah
Maximum Charging Current	50A	100A
Maximum Continuous Discharge Current	50A	100A
Maximum Output Power	10KW	20KW
HV Controller	1pcs	1pcs
Weight	108Kg	216KGS
Dimension Lx DxH	560 x 270 x 850mm	560 x 540 x 850mm
Operating Voltage Range	179.2 ~230.4V	
Cycle Life	6000 cycles at 80% DOD	
Designed Life-span	10 years	
Installation	Floor-mounting (Horizontal and stacking)	
Communication	RS485/CANbus/Ethernet/WiFi	
Charging Temperature Range	0~50°C	
Discharge Temperature Range	-20~60°C	
Enclosure Protection	IP54	
Humidity	≤85%	
Altitude	≤2000m	
Application	In door	
Inverter Choosing	On/Off Grid 3 phases inverter	
Heat Management	Air cooling	

SPECIFICATIONS



Item	ECO SPF512V50-HV	ECO SPF512V150-HV
BATTERY		
Battery Module	ECO SPF48V52Ah-3U (10pcs in series)	ECO PF48V150Ah (10pcs in series)
Cell Chemistry	26.6kWh	76.8kWh
Cell type	512V	512V
Nominal Capacity	52Ah	150Ah
Maximum Charging Current	50A	25A
Maximum Continuous Discharge Current	50A	25A
Maximum Output Power	26KW	76KW
HV Controller	1pc	1pc
Module Dimensions (L x W x H)	482 x 451 x 132mm	614 x 500x 186mm
Module Weight	28.5 Kg (10pcs) + 9.7Kg (1pc HV DC controller)	60Kg(10pcs)+10Kg (1pc HV DC controller)
Operating Voltage Range	448 ~576V	
Cycle Life	6000 cycles at 80% DOD	
Designed Life-span	10 years	
Installation	Standard 19" power cabinet	Stacking mounted power cabinet
Communication	RS485/CANbus/Ethernet/WiFi	CANbus/Ethernet/WiFi
Charging Temperature Range	0~50°C	
Discharge Temperature Range	-20~60°C	
Enclosure Protection	IP20	
Humidity	≤85%	
Altitude	≤2000m	
Application	In door / Out door	
Inverter Choosing	On/Off Grid 3 phases inverter	
Heat Management	Air cooling	

ECO GREEN ENERGY BUILDING A SOLAR-POWERED WORLD





ECO GREEN ENERGY EU

The Future is Now

