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UPS 产品目录

UPS Product Catalog

For the green digital world

ACT series Intelligent tower UPS

- Power range: 10 ~ 600kVA
- Working mode: three in three out
- Rack/Tower installation
- System level + board level + device level protection, extremely reliable, more adaptable
- Large color touch screen, friendly human-machine interface
- Extreme power density design, easy installation and maintenance



创新数字能源，驱动绿色未来
FOR THE GREEN DIGITAL WORLD

ACM Series intelligent modular UPS

- Power range: 10-600kVA
- Working mode: three in three out/three in one out/one in one out
- Flexible matching: inline/shelf installation method
- Board level + device level protection, extremely reliable, more adaptable
- Large color touch screen, friendly human-machine interface
- Extreme power density design, energy saving and land saving



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ACM Series

50~600kVA Modular UPS



Power range

50~600kVA



Operation

3P/3P, Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

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Characteristics

- Fully digital control, flexible and robust.
- 7 & 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 1.8MVA, the best solution for mega data center.



Model	AC200/50	AC240/60	AC300/50	AC360/60	AC400/50	AC480/60	AC600/50	AC600/60	
Rate Power	200kVA	240kVA	300kVA	360kVA	400kVA	480kVA	600kVA	600kVA	
Main input	Input 3P5W (3P+N+PE)								
	Rate Voltage 380/400/415VAC(L-L); 220/230/240VAC(L-N)								
	Rate Freq. 50/60Hz								
	Input PF >0.99								
	Current distortion THDi<3%(100% Linear load)								
	Voltage range 304 ~ 478VAC(L-L)full load; 304 ~ 228VAC (L-L) power derate from 100% to 75%								
	Freq. range 40-70Hz								
Battery	Rate voltage ±240VDC								
	Charging capacity 20%*Pout								
	Charging accuracy ±1%								
Bypass	Rate voltage 380/400/415VAC(L-L)220/230/240VAC(L-N)								
	Voltage range Range: -40%- +25% , Settable, default -20% ~ +15%								
	Overload	125%, long time operation 125%< load <130%, 10mins 130%<load <150%, 1min >150%,300ms		110%, long time operation 110%< load<125%, 5 mins 125%<load<150%, 1 min >150%,1 second					
Inverter	Rate voltage 380/400/415VAC(L-L); 220/230/240VAC(L-N)								
	Rate Freq. 50/60Hz								
	Output PF 1								
	Voltage accuracy ±1.0%								
	Load response <5% (20% - 80% -20% step load)								
	Recovery time < 20ms (0% - 100% -0% step load)								
	Output THDu <1%(linear load),<5% (non-linear load according to IEC 62040-3)								
	Overload 110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms								
	Frequency accuracy 0.1%								
	Synchronize window Settable, ±0.5Hz-±5Hz, default ±3Hz								
	Slew rate Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S								
	Crest factor 3:1								
	Phase Accuracy 120°±0.5°								
	System	Efficiency Normal Mode up to 96%; Battery Mode up to 96%							
Display		LED + 7 inch touch LCD		LED + 10 inch touch LCD					
Certification- Safety IEC62040-1, IEC60950-1									
Certification- EMS IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)									
IP degree		IP20							
Configuration		USB, RS232, RS485, Dry contact, Cold start, Air filter							
Option		SNMP card、AS400 card、 Parallel kit、 SPD、 LBS							
Environment		0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)							
Noise(dB)(1 meter)		72dB @ 100% load, 69dB @ 45% load							
Dimension		Cabinet(W*D*H)mm	600*1000*1600		600*1000*2000			1200*1100*2000	
	Module(W*D*H)mm	442*659*174							
Weight(kg)	Cabinet	185		248		250		578	
	Module	41							
Power Module rated capacity	50KW	60KW	50KW	60KW	50KW	60KW	50KW	60KW	

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ACM Series

62.5~2000kVA Modular UPS



Power range

62.5~2000kVA



Operation

3P/3P, Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 2.0MVA, the best solution for mega data center.



Model	AC400	AC500	AC800	AC1000	AC1200	AC1500	AC2000
Rate Power	400kVA	500kVA	800kVA	1000kVA	1200kVA	1500kVA	2000kVA
Main input	Input 3P5W (3P+N+PE)						
	Rate Voltage 380/400/415VAC(L-L);220/230/240VAC(L-N)						
	Rate Freq. 50/60Hz						
	Input PF >0.99						
	Current distortion THDi<3%(100% Linear load)						
	Voltage range 304 ~ 478VAC(L-L)full load; 304 ~ 228VAC (L-L) power derate from 100% to 75%						
	Freq. range 40-70Hz						
Battery	Rate voltage ±240VDC						
	Charging capacity 20%*Pout						
	Charging accuracy ±1%						
Bypass	Rate voltage 380/400/415VAC(L-L);220/230/240VAC(L-N)						
	Voltage range Range: -40%- +25% , Settable, default -20% ~ +15% ;						
	Overload 110%, long time operation 110%< load<125%, 5 mins 125%<load<150%,1 min >150%,1 second						
Inverter	Rate voltage 380/400/415VAC(L-L);220/230/240VAC(L-N)						
	Rate Freq. 50/60Hz						
	Output PF 1						
	Voltage accuracy ±1.0%						
	Load response <5% (20% - 80% -20% step load)						
	Recovery time < 20ms (0% - 100% -0% step load)						
	Output THDu <1%(linear load),<5% (non-linear load according to IEC 62040-3)						
	Overload 110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms						
	Frequency accuracy 0.1%						
	Synchronize window Settable , ±0.5Hz-±5Hz, default ±3Hz						
	Slew rate Settable , 0.5Hz/S-3Hz/S, default 0.5Hz/S						
	Crest factor 3:1						
	Phase Accuracy 120°±0.5°						
System	Efficiency Normal Mode up to 96%; Battery Mode up to 96%						
	Display LED + 10 inch touch LCD						
	Certification- Safety IEC62040-1, IEC60950-1						
	Certification- EMS IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)						
	IP degree IP20						
	Configuration USB, RS232, RS485, Dry contact, Cold start, Air filter						
	Option SNMP card、AS400 card、Parallel kit、SPD、LBS						
	Environment 0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)						
	Noise(dB)(1 meter) 72dB @ 100% load, 69dB @ 45% load						
	Dimension	Cabinet(W*D*H)mm 600*1000*2000		2000*1000*2000		2800*1000*2000	
Module(W*D*H)mm 442*659*174							
Weight(kg)	Cabinet 250		600		850		1100
	Module 41						
Power Module rated capacity	50KW	62.5KW	50KW	62.5KW	50KW	62.5KW	

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ACM Series

25~300kVA Modular UPS



Power range

25~300kVA



Operation

3P/3P, Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

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Characteristics

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



Model		AC250/25	AC300/30
Rate Power		250kVA/250kW	300kVA/300kW
Main input	Input	3P5W (3P+N+PE)	
	Rate Voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)	
	Rate Freq.	50/60Hz	
	Input PF	>0.99	
	Current distortion	THDi<3%(100% Linear load)	
	Voltage range	304 ~ 478VAC(L-L)full load; 304 ~ 228VAC (L-L) power derate from 100% to 75%	
	Freq. range	40-70Hz	
Battery	Rate voltage	±240VDC	
	Charging capacity	20%*Pout	
	Charging accuracy	±1%	
Bypass	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)	
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%	
	Overload	110%, long time operation: 110%< load<125%, 5 mins; 125%<load<150%,1 min; >150%,1 second	
Inverter	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)	
	Rate Freq.	50/60Hz	
	Output PF	1	
	Voltage accuracy	±1.0%	
	Load response	<5% (20% - 80% -20% step load)	
	Recovery time	< 20ms (0% - 100% -0% step load)	
	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)	
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms	
	Frequency accuracy	0.1%	
	Synchronize window	Settable , ±0.5Hz-±5Hz, default ±3Hz	
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S	
	Phase Accuracy	120°±0.5°	
	System	Efficiency	Normal Mode up to 95.5%; Battery Mode up to 95.5%
Display		LED + 10 inch touch LCD	
Certification- Safety		IEC62040-1, IEC60950-1	
Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)	
IP degree		IP20	
Configuration		USB, RS232, RS485, Dry contact, Cold start, Air filter	
Option		SNMP card, AS400 card, Parallel kit, SPD, LBS	
Environment		0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)	
Noise(dB)(1 meter)		65dB @ 100% load, 62dB @ 45% load	
Dimention	cabinet(W*D*H)mm	600*1000*2000	
	module(W*D*H)mm	440*678*85 (2U)	
Weight(kg)	Cabinet	260	
	Module	23	
Power Module rated capacity		25KW	30KW

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ACM Series

25~180kVA Modular UPS



Power range

25~ 180kVA



Operation

3P/3P,3P/1P, 1P/1P,Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Mounted in 19 inch rack, or stand alone.
- 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



Model		AC100/25	AC120/30	AC150/25	AC180/30
Rate Power		100kVA/100kW	120kVA/120kW	150kVA/150kW	180kVA/180kW
Main input	Input	3P5W (3P+N+PE)			
	Rate Voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)			
	Rate Freq.	50/60Hz			
	Input PF	>0.99			
	Current distortion	THDi<3%(100% Linear load)			
	Voltage range	304 ~478VAC(L-L)full load; 304 ~ 228VAC (L-L) power derate from 100% to 75%			
	Freq. range	40-70Hz			
Battery	Rate voltage	±240VDC			
	Charging capacity	20%*Pout			
	Charging accuracy	±1%			
Bypass	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)			
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%			
	Overload	110%, long time operation: 110%< load<125%, 5 mins; 125%<load<150%,1 min; >150%,1 second			
Inverter	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)			
	Rate Freq.	50/60Hz			
	Output PF	1			
	Voltage accuracy	±1.0%			
	Load response	<5% (20% - 80% -20% step load)			
	Recovery time	< 20ms (0% - 100% -0% step load)			
	Output THDu	<1%(linear load), <5% (non-linear load according to IEC 62040-3)			
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms			
	Frequency accuracy	0.1%			
	Synchronize window	Settable , ±0.5Hz-±5Hz, default ±3Hz			
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S			
	Phase Accuracy	120°±0.5°			
	System	Efficiency	Normal Mode up to 95.5%; Battery Mode up to 95.5%		
Display		LED + 7 inch touch LCD			
Certification- Safety		IEC62040-1, IEC60950-1			
Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)			
IP degree		IP20			
Configuration		USB, RS232, RS485, Dry contact, Cold start			
Option		SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit			
Environment		0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)			
Noise(dB)(1 meter)		65dB @ 100% load, 62dB @ 45% load			
Dimension	cabinet(W*D*H)mm	482*816*796 (18U , wheels not included)		482*816*1018(23U , wheels not included)	
	module(W*D*H)mm	440*678*85 (2U)			
Weight(kg)	Cabinet	113		132	
	Module	23			
Power Module rated capacity		25KW	30KW	25KW	30KW

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ACM Series

10~120kVA Modular UPS



Power range

10~120kVA



Operation

3P/3P, 3P/1P, 1P/1P, Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Mounted in 19 inch rack, or stand alone.
- 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 20kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



Model	2-Slot Cabinet			4-Slot Cabinet			6-Slot Cabinet			
	AC020/10	AC030/15	AC040/20	AC040/10	AC060/15	AC080/20	AC060/10	AC090/15	AC120/20	
Rate Power	20kVA	30kVA	40kVA	40kVA	60kVA	80kVA	60kVA	90kVA	120kVA	
Main input	Input	3P5W (3P+N+PE)								
	Rate Voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)								
	Rate Freq.	50/60Hz								
	Input PF	>0.99								
	Current distortion	THDi<3%(100% Linear load)								
	Voltage range	304 ~478VAC(L-L)full load; 304 ~ 228VAC (L-L) power derate from 100% to 75%								
	Freq. range	40-70Hz								
Battery	Rate voltage	±240VDC								
	Charging capacity	20%*Pout								
	Charging accuracy	±1%								
Bypass	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)								
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%								
	Overload	110%, long time operation; 110%< load<125%, 5 mins; 125%<load<150%,1 min; >150%,1 second								
Inverter	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)								
	Rate Freq.	50/60Hz								
	Output PF	1								
	Voltage accuracy	±1.0%								
	Load response	<5% (20% - 80% -20% step load)								
	Recovery time	< 20ms (0% - 100% -0% step load)								
	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)								
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms								
	Frequency accuracy	0.1%								
	Synchronize window	Settable , ±0.5Hz-±5Hz, default ±3Hz								
	Slew rate	Settable , 0.5Hz/S-3Hz/S , default 0.5Hz/S								
	Phase Accuracy	120°±0.5°								
System	Efficiency	Normal Mode up to 95.5%; Battery Mode up to 95.5%								
	Display	LED + 7 inch touch LCD								
	Certification- Safety	IEC62040-1, IEC60950-1								
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)								
	IP degree	IP20								
	Configuration	USB, RS232, RS485, Dry contact, Cold start								
	Option	SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit								
	Environment	0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)								
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load								
Dimension	cabinet(W*D*H)mm	482*700*396 (9U , wheels not included)			482*700*662(15U , wheels not included)			482*700*840(19U , wheels not included)		
	module(W*D*H)mm	440*555*85 (2U)								
Weight(kg)	Cabinet	55			92			94		
	Module	17								
Power Module rated capacity	10KW	15KW	20KW	10KW	15KW	20KW	10KW	15KW	20KW	

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ACT Series

100~600kVA 3-phase Tower UPS



Power range

100~600kVA



Operation

3P/3P, Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- 3P/3P pure online double transformation products, support 380 / 400 / 415V, 50 / 60Hz power grid system, to provide the ideal power supply quality and load protection.
- High performance and efficiency, input PF>0.99, THDi<3%, efficiency >96% .
- Full DSP control, flexible and robust digital control for rectifier, inverter and battery management.
- Wide range of voltage and frequency, adapt to different grid and generator input.
- Intelligent system self-diagnosis scheme, rich fault recording, large capacity of history record storage space.
- Redundancy fan design in power module, increasing the system reliability and tolerance.
- Top/bottom cable entry, flexible for different field installation.

Model		TT100	TT120	TT180	TT200	TT240	TT300	TT400	TT500	TT600	
Rate Power		100kVA	120kVA	180kVA	200kVA	240kVA	300kVA	400kVA	500kVA	600kVA	
Input		3P5W (3P+N+PE)									
Rate Voltage		380/400/415VAC(L-L); 220/230/240VAC(L-N)									
Main Rate Freq.		50/60Hz									
input Input PF		>0.99									
Current distortion		THDi<3% (100% Linear load)									
Voltage range		304~478VAC(L-L)full load; 304~228VAC (L-L) power derate from 100% to 75%									
Rate voltage		±240VDC									
Battery Charging capacity		20%*Pout									
Charging accuracy		±1%									
Rate voltage		380/400/415VAC(L-L)220/230/240VAC(L-N)									
Bypass Voltage range		Range: -40%+25% , Settable, default -20%~+15%;									
Overload		125% , long time operation 130%<load <150%,1min			125%< load <130%, 10mins >150%,300ms			110% , long time operation 125%<load<150%,1 min		110%< load<125%, 5 mins >150%,1 second	
Rate voltage		380/400/415VAC(L-L); 220/230/240VAC(L-N)									
Rate Freq.		50/60Hz									
Output PF		1									
Voltage accuracy		±1.0%									
Load response		<5% (20% - 80% -20% step load)									
Recovery time		< 20ms (0% - 100% -0% step load)									
Inverter Output THDu		<1% (linear load) ,<5% (non-linear load according to IEC 62040-3)									
Overload		110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms									
Frequency accuracy		0.1%									
Synchronize window		Settable , ±0.5Hz-±5Hz, default ±3Hz									
Slew rate		Settable , 0.5Hz/S-3Hz/S, default 0.5Hz/S									
Crest factor		3:1									
Phase Accuracy		120°±0.5°									
Efficiency		Normal Mode up to 96% ; Battery Mode up to 96%									
Display		LED + 7 inch touch LCD					LED + 10 inch touch LCD				
Certification- Safety		IEC62040-1, IEC60950-1									
Certification- EMS		IEC62040-2 ; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)									
System IP degree		IP20									
Configuration		USB, RS232, RS485, Dry contact, Cold start, Air filter									
Option		SNMP card, AS400 card, Parallel kit, SPD, LBS									
Environment		0-40℃ (operation) ; -25℃~70℃ (storage) ; 0-95% (Humidity, non-condensing)									
Noise(dB)(1 meter)		72dB @ 100% load, 69dB @ 45% load									
Dimension (W*D*H)mm		600*1000*1600					600*1000*2000			1200*1100*2000	
Weight Cabinet		185					248		250		578
Weight Module		41									
Power Module rated capacity		50KW	60KW	50KW	60KW	50KW	62.5KW	60KW			

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ACT Series

10~80kVA 3 phases Tower UPS



Power range

10~80kVA

Operation

3P/3P, Online double conversion

O Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Characteristics

- 7 inch touch LCD with IoT functions.
- High power density, small volume.
- High reliability and environment adaptability.
- Optional full metal battery strips, with internal batteries capable of configuring up to 16 battery module strips.



Full metal battery strips(Optional)

Model	TT010B	TT015B	TT020B	TT030B	TT040B	TT060B	TT080B
	TT010L	TT015L	TT020L	TT030L	TT040L	TT060L	TT080L
Rate Power	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA
Main input	Input	3P5W (3P+N+PE)					
	Rate Voltage	380/400/415VAC(L-L) ; 220/230/240VAC(L-N)					
	Rate Freq.	50/60Hz					
	Input PF	>0.99					
	Current distortion	THDi<3% (100% Linear load)					
	Voltage range	304 ~478VAC(L-L)full load ; 304 ~ 228VAC (L-L) power derate from 100% to 75%					
	Freq. range	40-70Hz					
	Rate voltage	±240VDC					
Battery	Model	UPS with internal batteries,12VDC/7~9Ah					
		UPS for external batteries,Settable					
	Internal BAT	120PCS				160PCS	
	External BAT	Depend on external battery, 40PCS					
	Charging capacity	20%*Pout					
	Charging accuracy	±1%					
Bypass	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)					
	Voltage range	Range: -40% - +25% , Settable, default -20% ~ +15%					
	Frequency range	50/60Hz , Settable : ±1Hz , ±3Hz , ±5Hz					
Inverter	Rate voltage	380/400/415VAC(L-L) ; 220/230/240VAC(L-N)					
	Rate Freq.	50/60Hz					
	Output PF	1					
	Voltage accuracy	±1.0%					
	Load response	<5% (20% - 80% -20% step load)					
	Recovery time	< 20ms (0% - 100% -0% step load)					
	Output THDu	<1% (linear load) , <5% (non-linear load according to IEC 62040-3)					
	Overload	110%,1 hour ; 125%,10 mins ; 150%,1 min ; >150%,200ms					
	Frequency accuracy	0.1%					
	Synchronize window	Settable , ±0.5Hz-±5Hz , default ±3Hz					
	Slew rate	Settable , 0.5Hz/S-3Hz/S , default 0.5Hz/S					
	Crest factor	3:1					
	Phase Accuracy	120°±0.5°					
	System	Efficiency	Normal Mode up to 96% ; Battery Mode up to 96%				
Display		LED + 7 inch touch LCD					
Certification- Safety		IEC62040-1, IEC60950-1					
Certification- EMS		IEC62040-2 ; IEC61000-4-2(ESD) ; IEC61000-4-3(RS) ; IEC61000-4-4 (EFT) ; IEC61000-4-5 (Surge)					
IP degree		IP20					
Configuration		USB, RS232, RS485, Dry contact, Air filter					
Option		SNMP card, AS400 card, Parallel kit, LBS, Cold start					
Environment		0-40c (operation) ; -25°C ~70c (storage) ; 0-95% (Humidity, non-condensing)					
Dimension (W*D*H) mm		Internal BAT	500*864*922				500*865*1250
	External BAT	250*530*650			250*782*650		
Weight(kg)	Internal BAT (No include batteries)	143			155	200	
	External BAT	43			53	85	

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ACT Series

10~40kVA 3 phases Rack UPS



Power range

10~40kVA



Operation

3P/3P,3P/1P, 1P/1P,Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Mounted in 19 inch rack, or install as tower UPS.
- 7 inch touch LCD with IoT functions.
- Flexible configuration as 3/3,3/1, 1/1.
- High power density, small volume, 30kW in 3U.
- High reliability and environment adaptability.



Model	TT010LR	TT015LR	TT020LR	TT030LR	TT040LR
Rate Power	10kVA	15kVA	20kVA	30kVA	40kVA
Main input	Input 3P5W (3P+N+PE)				
	Rate Voltage 380/400/415VAC(L-L); 220/230/240VAC(L-N)				
	Rate Freq. 50/60Hz				
	Input PF >0.99				
	Current distortion THDi<3% (100% Linear load)				
	Voltage range 304 ~478VAC(L-L)full load; 304 ~ 228VAC (L-L) power derate from 100% to 75%				
	Freq. range 40-70Hz				
Battery	Rate voltage ±240VDC				
	Charging capacity 20%*Pout				
	Charging accuracy ±1%				
Bypass	Rate voltage 380/400/415VAC(L-L)220/230/240VAC(L-N)				
	Voltage range Range: -40%- +25% , Settable, default -20% ~ +15%				
	Frequency range 50/60Hz , Settable : ±1Hz, ±3Hz, ±5Hz				
Inverter	Rate voltage 380/400/415VAC(L-L); 220/230/240VAC(L-N)				
	Rate Freq. 50/60Hz				
	Output PF 1				
	Voltage accuracy ±1.0%				
	Load response <5% (20% - 80% -20% step load)				
	Recovery time < 20ms (0% - 100% -0% step load)				
	Output THDu <1% (linear load) ,<5% (non-linear load according to IEC 62040-3)				
	Overload 110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms				
	Frequency accuracy 0.1%				
	Synchronize window Settable , ±0.5Hz-±5Hz, default ±3Hz				
	Slew rate Settable , 0.5Hz/S-3Hz/S, default 0.5Hz/S				
	Crest factor 3:1				
	Phase Accuracy 120°±0.5°				
	System	Efficiency Normal Mode up to 96%; Battery Mode up to 96%			
Display LED + 7 inch touch LCD					
Certification- Safety IEC62040-1, IEC60950-1					
Certification- EMS IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)					
IP degree IP20					
Configuration USB, RS232, RS485, Dry contact					
Option SNMP card, AS400 card, Parallel kit, LBS, Air filter, Cold start					
Environment 0-40c (operation) ; -25°C ~70c (storage) ; 0-95% (Humidity, non-condensing)					
Dimension (W*D*H) mm	440*774*130 (3U)				440*788*174 (4U)
Weight(kg)	27		28	29	38

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ACS Series

10~20kVA 3/1 single phase Tower UPS



Power range

10~20kVA



Operation

3/1, online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1, high load adaptability.
- Wide range of input voltage tolerance.
- Adapt to half-wave load.
- Auto fault waveform recording.
- Self-aging function to save test energy.

Model	TS010L	TS015L	TS020L
Rate Power	10kVA	15kVA	20kVA
Cold start	Default output 50/60Hz		
Input voltage range	190~499VAC(L-L)		
Input power factor	≥0.99		
Frequency range	40-70Hz		
Output frequency	50/60Hz, self adaption		
Output power factor	1		
Rate output	220/230/240VAC		
Load regulation	±1%		
Output THDu	≤1%, Linear load ; ≤3%, non-linear load according to IEC62040-3		
Transfer time-INV to BYP	0ms		
Efficiency- normal mode	Max 95%		
Efficiency- ECO mode	98%		
Noise (1 meter)	<55dB	<62dB	<62dB
Overload (normal mode)	110%: 10mins; 125%: 1min; 150%: 30 seconds		
Battery Model	External batteries, 16-24 settable		
Battery Quantity	5A		
Battery Max charging Rate voltage	Default 192VDC, settable		
Crest factor	3:1		
Standard	RS232, RS485, EPO		
Option	AS400, SNMP card, Parallel kit, USB, 12A charger, Air filter, Single Input kit, Maintenance bypass kit		
Dimension, (W*D*H)mm	190*564*500		
Weight (kg)	30		

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ACS Series

10~20kVA 3/1 single phase Rack UPS



Power range

10~20kVA



Operation

3/1,online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1,high load adaptability.
- Wide range of input voltage tolerance.
- Adapt to half-wave load.
- Auto fault waveform recording.
- Self-aging function to save test energy.

Model	TS010LR	TS015LR	TS020LR
Rate Power	10kVA	15kVA	20kVA
Cold start	Default output 50/60Hz		
Input voltage range	190~499VAC(L-L)		
Input power factor	≥0.99		
Frequency range	40-70Hz		
Output frequency	50/60Hz,self adaption		
Output power factor	1		
Rate output	220/230/240VAC		
Load regulation	±1%		
Output THDu	≤1%,Linear load; ≤3%,non-linear load according to IEC62040-3		
Transfer time-INV to BYP	0ms		
Efficiency- normal mode	Max 95%		
Efficiency- ECO mode	98%		
Noise (1 meter)	<55dB	<62dB	<62dB
Overload (normal mode)	110%:10mins;125%:1min;150%:30 seconds		
Battery	External batteries,16-24 settable		
Quantity	5A		
Max charging Rate voltage	Default 192VDC, settable		
Crest factor	3:1		
Standard	RS232, RS485,EPO		
Option	AS400, SNMP card, Parallel kit, USB, 12A charger, Air filter, Single Input kit		
Dimension, W*D*H(mm)	440*730*173(4U)		
Weight(kg)	30		

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ACS Series

6~20kVA Single phase Tower UPS



Power range

6~20kVA



Operation

1P/1P, online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1, high load adaptability.
- Wide range of input voltage tolerance.
- Adapt to half-wave load.
- Auto fault waveform recording.
- Self-aging function to save test energy

Model	SS006B	SS006L	SS010B	SS010L	SS015L	SS020L
Rate Power	6kVA/6kW	6kVA/6kW	10kVA/10kW	10kVA/10kW	15kVA/15kW	20kVA/20kW
Cold start	Default output 50/60Hz					
Input voltage range	110~288VAC (220/230/240VAC); 176VAC~288VAC,full load;176~110 VAC ,power derate from 100% to 50%					
Input power factor	≥0.99					
Frequency range	40-70Hz					
Output frequency	50/60Hz, self adaption					
Output power factor	1					
Rate output	220/230/240VAC					
Load regulation	±1%					
Output THDu	≤1%THD, linear load; ≤5%THD, non-linear load					
Transfer time-main to BAT	0ms					
Transfer time-INV to BYP	0ms					
Efficiency-normal mode	Max 95%					
Efficiency-ECO mode	98%					
Noise (1 meter)	58dB				62dB	
Overload (normal mode)	110%:10mins;125%:1min;150%: 30 seconds					
Battery	Model	12VDC/7Ah	External, 16-24 settable	12VDC/9Ah	External, 16-24 settable	External, 16-24 settable
	Quantity	16		16		
	Max charging Rate	1A	5A	1A	5A	5A
	voltage	Default 192VDC, settable				
Crest	3:1					
Display	LED+LCD					
Standard	RS232, EPO, RS485					
Option	AS400, SNMP card, Parallel kit, Maintenance bypass kit, 12A charger, Air filter					
Dimension, W*D*H (mm)	190*605*705	190*605*338	190*605*705	190*605*338	190*564*550	
Weight (kg)	56	14	60	16	30	

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ACS Series

6~10kVA single phase Rack UPS



Power range

6~10kVA



Operation

1P/1P, online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1, high load adaptability.
- Wide range of input voltage tolerance.
- Adapt to half-wave load.
- Auto fault waveform recording.
- Self-aging function to save test energy 10kW in 2U, high power density.

Model	SS006BR	SS006LR	SS010BR	SS010LR
Rate Power	6kVA/6kW	6kVA/6kW	10kVA/10kW	10kVA/10kW
Cold start	Default output 50/60Hz			
Input voltage range	110~288VAC: 100% load@>176VAC: 90% load@>154VAC: 75% load@>132VAC: 50% load@>110VAC			
Input power factor	≥0.99			
Frequency range	40-70Hz			
Output power factor	1.0			
Rate voltage	220/230/240VAC,200/208VAC(PF=0.9)			
Load response	≤5% (0% - 100% -0%)			
Recovery time	≤40ms (0% - 100% -0%)			
THDu	≤1%, linear load ;≤ 5% , non-linear load according to IEC62040-3			
Transfer time-Main to Battery	0ms			
Transfer time-INV to BYP	0ms			
Crest factor	3:1			
Battery type	12VDC/7Ah	External battery	12VDC/9Ah	External battery
Battery Number	16PCS	16-24 PCS settable	16PCS	16-24 PCS settable
Battery voltage	192VDC (default),settable			
Max charging	1A	5A	1A	5A
Efficiency –normal mode	Max 95%			
Noise (1 meter)	<58dB			
Normal mode	105%~110%: 10mins,111%~125%: 1 min,126%~150%: 30 seconds			
ECO mode	<125%: long time,126%~130%:5mins,131%~150%:1min,>150% :200ms			
Communication	RS232, EPO, RS485			
Option	AS400, USB, SNMP card, 12A charger, Parallel kit, Air filter			
Dimension W*D*H(mm)	440*660*172	440*580*86	440*660*172	440*580*86
Weight(kg)	62.5	16	63	18

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ACS Series

1~3kVA online Tower UPS



Power range

1~3kVA

Operation

1P/1P, online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Characteristics

- High efficiency up to 96% .
- Output PF=1, high load adaptability.
- Wide input voltage range of 110~300Vac.
- Max charging current up to 12A.

Model	SS001B	SS001L	SS002B	SS002L	SS003B	SS003L
Rate Power	1kVA/1kW	1kVA/1kW	2kVA/2kW	2kVA/2kW	3kVA/3kW	3kVA/3kW
Cold start	Default output 50/60Hz					
Input voltage range	110~300VAC;100% load@176VAC~276VAC, 100%~50% power derating@110VAC~176VAC, 50% load@276VAC~300VAC					
Input power factor	≥0.99					
Frequency range	50/60±5Hz(default), ±3Hz/±10Hz(settable)					
Output power factor	1.0					
Rate voltage	220/230/240VAC, 200/208VAC(PF=0.9)					
Load response	≤5% (0% - 100% -0%)					
Recovery time	≤40ms (0% - 100% -0%)					
Output THDu	≤2% , Linear load ; ≤ 5% non-linear load according to IEC62040-3					
Main to BAT	0					
INV to BYP	4ms					
Crest factor	3:1					
Efficiency (normal mode)	Max 96%					
Noise (1 meter)	43dB@<60%load, 47dB@>60%load		<50dB@<60%load,<55dB@>60%load		<50dB@<60%load,<55dB@>60%load	
Normal	102%~110%: 30mins, 110%~125%:10mins, 125%~150%: 30 seconds					
Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%:5 seconds					
Bypass mode	<130%: long time, 130%~150%:10mins, 150%~180%:5 seconds					
Model	12VDC/7Ah	Depend on external battery	12VDC/7Ah	Depend on external battery	12VDC/7Ah	Depend on external battery
Quantity	3		6		8	
Max charging	1A	1-12A(settable)	1A	1-12A(settable)	1A	1-12A(settable)
Rate voltage	36VDC		72VDC		96VDC	
Standard	EPO, RS232					
Option	SNMP card, AS400, USB, RS485, BMS by dry contact, Air filter					
Dimension ,W*D*H(mm)	144*355*226		190*400*328	144*398*223	190*400*328	144*398*223
Weight (kg)	10.5	4.5	20.5	6	25	6

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ACS Series

1~3kVA online Rack UPS



O Power range

1~3kVA

O Operation

1P/1P, online double conversion

G Applications

Government, Finance, IT,
Education, Transportation,
Broadcasting, Medical,
Energy, etc.

C Characteristics

- High efficiency up to 96% .
- Output PF=1, high load adaptability.
- Wide input voltage range of 110~300Vac.
- Max charging current up to 12A.

Model	SS001BR	SS001LR	SS002BR	SS002LR	SS003BR	SS003LR	
Rate Power	1kVA/1kW	1kVA/1kW	2kVA/2kW	2kVA/2kW	3kVA/3kW	3kVA/3kW	
Cold start	Default output 50/60Hz						
Input voltage range	110~300VAC;100% load@176VAC~276VAC, 100%~50% power derating@110VAC~176VAC, 50% load@276VAC~300VAC						
Input power factor	≥0.99						
Frequency range	50/60±5Hz(default),±3Hz/±10Hz(settable)						
Output power factor	1.0						
Output	Rate voltage	220/230/240VAC, 200/208VAC(PF=0.9)					
	Load response	≤5% (0% - 100% -0% step load)					
	Recovery time	≤40ms (0% - 100% -0% step load)					
	Output THDu	≤2% , Linear load ; ≤ 5% non-linear load according to IEC62040-3					
Transfer time	Main to BAT	0					
	INV to BYP	4ms					
Efficiency (normal mode)	Max 96%						
Noise (1 meter)	43dB@<60%load, 47dB@>60%load		<50dB@<60%load,<55dB@>60%load		<50dB@<60%load,<55dB@>60%load		
Overload	Normal	102%~110%: 30mins, 110%~125%:10mins, 125%~150%: 30 seconds					
	Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%:5 seconds					
	Bypass mode	<130%: long time, 130%~150%:10mins, 150%~180%:5 seconds					
Battery	Model	12VDC/7Ah	Depend on external battery	12VDC/7Ah	Depend on external battery	12VDC/9Ah	Depend on external battery
	Quantity	3		6		6	
	Max charging	1A	1-12A(settable)	1A	1-12A(settable)	1A	1-12A(settable)
	Rate voltage	36VDC		72VDC		72VDC	
Standard	EPO, RS232						
Option	SNMP card,AS400, USB, RS485, BMS by dry contact, Air filter						
Dimension ,W*D*H(mm)	440*440*86		440*580*86		440*580*86		440*440*86
Weight (kg)	19	9.5	27.5	9.7	28	10	

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ACM Series

60~720kVA Modular UPS(480V)



Power range

60~720kVA

Operation

3P/3P, Online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

a Characteristics

- Fully digital control, flexible and robust.
- 7 & 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 1.8MVA, the best solution for mega data center.



Model		AC240/60-H	AC360/60-H	AC500/62.5-H	AC600/60-H	AC720/60-H
Rate Power		240kVA/240kW	360kVA/360kW	500kVA/500kW	600kVA/600kW	720kVA/720kW
Main input	Input	3P5W (3P+N+PE)				
	Rate Voltage	480VAC(L-L)				
	Rate Freq.	50/60Hz				
	Input PF	>0.99				
	Current distortion	THDi<3%(100% Linear load)				
	Voltage range	384 ~528VAC(L-L)full load ; 288 ~ 384VAC (L-L) power derate from 100% to 75%				
	Freq. range	40-70Hz				
	Rate voltage	±240VDC				
Battery	Charging capacity	20%*Pout				
	Charging accuracy	±1%				
Bypass	Rate voltage	480VAC(L-L)				
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%				
	Overload	125%, long time operation 125%< load <130%, 10mins 130%<load <150%, 1 min >150%,300ms	110%, long time operation 110%< load<125%, 5 mins 125%<load<150%,1 min >150%,1 second			
		Rate voltage	480VAC(L-L)			
Rate Freq.	50/60Hz					
Output PF	1					
Voltage accuracy	±1.0%					
Load response	<5% (20% - 80% -20% step load)					
Recovery time	< 20ms (0% - 100% -0% step load)					
Inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)				
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms				
Frequency accuracy	0.1%					
Synchronize window	Settable , ±0.5Hz-±5Hz , default ±3Hz					
Slew rate	Settable , 0.5Hz/S-3Hz/S , default 0.5Hz/S					
Crest factor	3:1					
Phase Accuracy	120°±0.5°					
Efficiency	Normal Mode up to 96%; Battery Mode up to 96%					
Display	LED + 7 inch touch LCD	LED + 10 inch touch LCD				
Certification- Safety	IEC62040-1, IEC60950-1					
Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)					
System	IP degree	IP20				
	Configuration	USB, RS232, RS485, Dry contact, Cold start, Air filter				
Option	SNMP card、AS400 card、Parallel kit、SPD、LBS					
Environment	0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)					
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load					
Dimension	Cabinet(W*D*H)mm	600*1000*1600	600*1000*2000		1200*1100*2000	
	Module(W*D*H)mm	442*659*174				
Weight(kg)	Cabinet	185	248	250	578	
	Module	41				
Power Module rated capacity	60KW		62.5KW		60KW	

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ACM Series

37.5~ 1200kVA Modular UPS (208V)



Power range

37.5~ 1200kVA



Operation

3P/3P, Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 1.2MVA, the best solution for mega data center.



Model	AC300-L	AC600-L	AC900-L	AC1200-L	
Rate Power	300kVA	600kVA	900kVA	1200kVA	
Main input	Input 3P5W (3P+N+PE)				
	Rate Voltage 200/208/220VAC(L-L)				
	Rate Freq. 50/60Hz				
	Input PF >0.99				
	Current distortion THDi<3%(100% Linear load)				
	Voltage range 166 ~261VAC(L-L)full load ; 125 ~ 166 VAC (L-L) power derate from 100% to 75%				
	Freq. range 40-70Hz				
Battery	Rate voltage ±120VDC				
	Charging capacity 20%*Pout				
	Charging accuracy ±1%				
Bypass	Rate voltage 200/208/220VAC(L-L)				
	Voltage range Range: -40%- +25% , Settable, default -20% ~ +15%				
	Overload 110%, long time operation 110%< load<125%, 5 mins 125%<load<150%,1 min >150%,1 second				
Inverter	Rate voltage 200/208/220VAC(L-L)				
	Rate Freq. 50/60Hz				
	Output PF 1				
	Voltage accuracy ±1.0%				
	Load response <5% (20% - 80% -20% step load)				
	Recovery time < 20ms (0% - 100% -0% step load)				
	Output THDu <1%(linear load),<5% (non-linear load according to IEC 62040-3)				
	Overload 110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms				
	Frequency accuracy 0.1%				
	Synchronize window Settable , ±0.5Hz-±5Hz , default ±3Hz				
	Slew rate Settable, 0.5Hz/S-3Hz/S , default 0.5Hz/S				
	Crest factor 3:1				
	Phase Accuracy 120°±0.5°				
	System	Efficiency Normal Mode up to 93% ; Battery Mode up to 93%			
Display LED + 10 inch touch LCD					
Certification- Safety IEC62040-1, IEC60950-1					
Certification- EMS IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)					
IP degree IP20					
Configuration USB, RS232, RS485, Dry contact, Cold start, Air filter					
Option SNMP card、AS400 card、 Parallel kit、 SPD、 LBS					
Environment 0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)					
Noise(dB)(1 meter) 72dB @ 100% load, 69dB @ 45% load					
Dimension		Cabinet(W*D*H)mm	600*1000*2000	2000*1000*2000	2800*1000*2000
	Module(W*D*H)mm	442*659*174			
Weight(kg)	Cabinet	250	600	850	1100
	Module	41			
Power Module rated capacity		37.5KW			

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ACM Series

36~360kVA Modular UPS(208V)



Power range

36~360kVA

Operation

3P/3P, Online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Characteristics

- Fully digital control, flexible and robust.
- 7 & 10 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Support 200 / 208 / 220V, 50 / 60Hz power grid system, to provide the ideal power supply quality and load protection.



Model	AC144/36-L	AC216/36-L	AC360/36-L
Rate Power	144kVA/144kW	216kVA/216kW	360kVA/360kW
Main input	Input 3P5W (3P+N+PE)		
	Rate Voltage 200/208/220VAC(L-L)		
	Rate Freq. 50/60Hz		
	Input PF >0.99		
	Current distortion THDi<3%(100% Linear load)		
	Voltage range 166 ~ 261VAC(L-L)full load 125 ~ 166VAC (L-L) power derate from 100% to 75%		
	Freq. range 40-70Hz		
Battery	Rate voltage ±120VDC		
	Charging capacity 20%*Pout		
	Charging accuracy ±1%		
Bypass	Rate voltage 200/208/220VAC(L-L)		
	Voltage range Range: -40%- +25% , Settable, default -20% ~ +15%		
	Overload	125%, long time operation 125%< load <130%, 10mins 130%<load <150%,1min >150%,300ms	110%, long time operation 110%< load<125%, 5 mins 125%<load<150%, 1 min >150%, 1 second
Inverter	Rate voltage 200/208/220VAC(L-L)		
	Rate Freq. 50/60Hz		
	Output PF 1		
	Voltage accuracy ±1.0%		
	Load response <5% (20% - 80% -20% step load)		
	Recovery time < 20ms (0% - 100% -0% step load)		
	Output THDu <1%(linear load),<5% (non-linear load according to IEC 62040-3)		
	Overload 110%, 1 hour 125%, 10 mins 150%, 1 min ; >150%,200ms		
	Frequency accuracy 0.1%		
	Synchronize window Settable. ±0.5Hz-±5Hz. default ±3Hz		
	Slew rate Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S		
	Crest factor 3:1		
	Phase Accuracy 120°±0.5°		
	System	Efficiency Normal Mode up to 93% ; Battery Mode up to 93%	
Display		LED + 7 inch touch LCD	LED + 10 inch touch LCD
Certification- Safety		IEC62040-1, IEC60950-1	
Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)	
IP degree		IP20	
Configuration		USB, RS232, RS485, Dry contact, Cold start, Air filter	
Option		SNMP card、AS400 card、 Parallel kit、 SPD、 LBS	
Environment		0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)	
Noise(dB)(1 meter)		72dB @ 100% load, 69dB @ 45% load	
Dimension		Cabinet(W*D*H)mm	600*1000*1600
	Module(W*D*H)mm	442*659*174	
Weight(kg)	Cabinet	185	248 578
	Module	41	
Power Module rated capacity	36KW		

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ACM Series

18~108kVA Modular UPS(208V)



Power range

18~ 108kVA



Operation

3P/3P,3P/1P, 1P/1P,Online double conversion



Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



Characteristics

- Mounted in 19 inch rack, or stand alone.
- 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density,30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



Model		AC72/18-L	AC108/18-L
Rate Power		72kVA/72kW	108kVA/108kW
Main input	Input	3P5W (3P+N+PE)	
	Rate Voltage	200/208/220VAC(L-L)	
	Rate Freq.	50/60Hz	
	Input PF	>0.99	
	Current distortion	THDi<3%(100% Linear load)	
	Voltage range	166 ~ 261VAC(L-L)full load; 125 ~ 166VAC (L-L) power derate from 100% to 75%	
	Freq. range	40-70Hz	
Battery	Rate voltage	±120VDC	
	Charging capacity	20%*Pout	
	Charging accuracy	±1%	
Bypass	Rate voltage	200/208/220VAC(L-L)	
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%	
	Overload	110%, long time operation: 110%< load<125%, 5 mins; 125%<load<150%,1 min; >150%,1 second	
Inverter	Rate voltage	200/208/220VAC(L-L)	
	Rate Freq.	50/60Hz	
	Output PF	1	
	Voltage accuracy	±1.0%	
	Load response	<5% (20% - 80% -20% step load)	
	Recovery time	< 20ms (0% - 100% -0% step load)	
	Output THDu	<1%(linear load), <5% (non-linear load according to IEC 62040-3)	
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms	
	Frequency accuracy	0.1%	
	Synchronize window	Settable , ±0.5Hz-±5Hz, default ±3Hz	
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S	
	Phase Accuracy	120°±0.5°	
	System	Efficiency	Normal Mode ≥93% ; Battery Mode ≥93%
Display		LED + 7 inch touch LCD	
Certification- Safety		IEC62040-1, IEC60950-1	
Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)	
IP degree		IP20	
Configuration		USB, RS232, RS485, Dry contact, Cold start	
Option		SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit	
Environment		0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)	
Noise(dB)(1 meter)		65dB @ 100% load, 62dB @ 45% load	
Dimention	cabinet(W*D*H)mm	482*816*796 (18U , wheels not included)	482*816*1018(23U , wheels not included)
	module(W*D*H)mm	440*678*85 (2U)	
Weight(kg)	Cabinet	113	132
	Module	23	
Power Module rated capacity		18KW	

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ACM Series

12~72kVA Modular UPS(208V)



Power range

12~72kVA

Operation

3P/3P,3P/1P, 1P/1P,Online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

Characteristics

- Mounted in 19 inch rack, or stand alone.
- 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density,20kW in 2U, friendly for space and maintenance .
- Option of 30A charger module for long backup applications.



Model		AC024/12-L	AC048/12-L	AC72/12-L
Rate Power		24kVA/24kW	48kVA/48kW	72kVA/72kW
Main input	Input	3P5W (3P+N+PE)		
	Rate Voltage	200/208/220VAC(L-L)		
	Rate Freq.	50/60Hz		
	Input PF	>0.99		
	Current distortion	THDi<3%(100% Linear load)		
	Voltage range	166 ~ 261VAC(L-L)full load; 125 ~ 166VAC (L-L) power derate from 100% to 75%		
	Freq. range	40-70Hz		
Battery	Rate voltage	±120VDC		
	Charging capacity	20%*Pout		
	Charging accuracy	±1%		
Bypass	Rate voltage	200/208/220VAC(L-L)		
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%		
	Overload	110%, long time operation: 110%< load<125%, 5 mins; 125%<load<150%,1 min; >150%,1 second		
Inverter	Rate voltage	200/208/220VAC(L-L)		
	Rate Freq.	50/60Hz		
	Output PF	1		
	Voltage accuracy	±1.0%		
	Load response	<5% (20% - 80% -20% step load)		
	Recovery time	< 20ms (0% - 100% -0% step load)		
	Output THDu	<1%(linear load), <5% (non-linear load according to IEC 62040-3)		
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms		
	Frequency accuracy	0.1%		
	Synchronize window	Settable , ±0.5Hz-±5Hz, default ±3Hz		
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S		
	Phase Accuracy	120°±0.5°		
	System	Efficiency	Normal Mode ≥93% ; Battery Mode ≥93%	
Display		LED + 7 inch touch LCD		
Certification- Safety		IEC62040-1, IEC60950-1		
Certification- EMS		IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)		
IP degree		IP20		
Configuration		USB, RS232, RS485, Dry contact, Cold start		
Option		SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit		
Environment		0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)		
Noise(dB)(1 meter)		65dB @ 100% load, 62dB @ 45% load		
Dimension	cabinet(W*D*H)mm	482*700*396 (9U , wheels not included)	482*700*662(15U , wheels not included)	482*700*840(19U , wheels not included)
	module(W*D*H)mm	440*555*85 (2U)		
Weight(kg)	Cabinet	55	92	94
	Module	17		
Power Module rated capacity		12KW		

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HyperAir Series

In-row Precision Cooling



Introduction

The HyperAir series precision cooling is an intelligent temperature control product for data centers, developed by ACwatt. It offers easy expansion, high energy efficiency with variable frequency, intelligent output, and safe operation. Suitable for data centers, it ensures a reliable and secure environment for critical infrastructure and precision equipment.

Features

High Efficiency

- Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output.
- The cooling efficiency is enhanced by a special return air temperature design.
- R410A refrigerant, international standard, environmentally friendly.

Simple

- 7" HMI colour touchscreen for easy operation and real-time display of information.
- CAN communication protocol, supports control of at least 64 units.
- The intelligent system automatically adjusts cooling output.
- Hierarchical password permissions, facilitating operation and maintenance management.

Reliable

- High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.

Indoor Unit(HA Series)	012	025	030	040	050	060
Total Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Sensible Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Air Flow Rate m ³ /h	2850	5080	5250	8580	10600	11600
Fan Type	EC Fan					
Quantity of Fans (pcs)	4	6	6	2	3	3
Compressor Type	DC Variable Frequency Compressor					
Expansion Valve Type	Electronic Expansion Valve					
Refrigerant Type	R410A					
Heating Capacity (kW)	3.0	4.5	4.5	6.0	6.5	6.5
Humidifier Capacity (kg/h)	3.0	3.0	3.0	3.0	3.0	3.0
Power Supply	380V/3N~50Hz					
Single Cooling Power Supply FLA (A)	19.0	23.2	29.2	30.1	34.8	43.8
Constant Temperature and Humidity Power Supply FLA (A)	22.9	27.9	34.0	37.6	42.0	51.0
Net Weight (kg)	200	225	235	305	335	350
Dimension: W×D×H (mm)	300*1200*2000	300*1200*2000	300*1200*2000	600*1200*2000	600*1200*2000	600*1200*2000
Conventional Outdoor Unit						
Outdoor Unit Model (Nominal condition)	FA020APN	FA040APN	FA046APN	FA058APN	FA078APN	FA090APN
Quantity of Fans (pcs)	2	1	1	1	2	2
Net Weight (kg)	49	135	139	150	176	185
Dimension:W×D×H (mm)	830*330*1245	1376*980*738	1576*1274*748	1776*1274*748	2176*1274*738	2376*1274*748
Centralized Outdoor Unit(Not one-to-one correspondence)						
Outdoor Unit Model (Nominal condition)	FA046AVN	FA058AVN	FA068AVN	FA078AVN	FA090AVN	FA098AVN
Quantity of Fans (pcs)	1	1	1	1	1	1
Net Weight (kg)	140	150	166	176	186	196
Dimension: W×D×H (mm)	1098*1098*1684	1098*1098*1684	1098*1098*1774	1098*1098*1774	1298*1098*1774	1298*1098*1774

Note:

1. Nominal condition: indoor: return air temp. 37°C/RH24%, outdoor: 35°C.
2. The FLA parameter is the full load current of the standard model, including the outdoor unit current.
3. Only the constant temperature and humidity model has the function of heating and humidification.
4. Customized products are available, if you need more parameters, please contact us.

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BaseAir series

Small Room Precision Cooling



Introduction

BaseAir series by ACwatt is an efficient, reliable room-level data center temperature control product. Used in small to medium data rooms, battery rooms, UPS rooms, base stations, and industrial equipment rooms for reliable temperature and humidity control.

Features

High Efficiency

- High sensible heat ratio and high energy efficiency design, achieving large air volume with low enthalpy difference.
- Backward inclined centrifugal fan, with large air volume and high efficiency.
- Variable-speed outdoor unit, the system operates consistently in high-efficiency mode.
- R410A refrigerant, international standard, environmentally friendly.

Simple

- 4.3" HMI colour touchscreen for easy operation and real-time display of information.
- Standard RS485 interface, optional SNMP interface, supports management of at least 64 units.
- Threaded quick-connect design, allows for on-site installation without welding.
- Hierarchical password permissions, facilitating operation and maintenance management.

Reliable

- High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.
- Multi-voltage compatibility reduces frequent start-stop operations of the devices.

Indoor Model(BA Series)	005	007	012	017	020
Total Cooling Capacity (kW)	5.6	7.6	12.6	17.2	20.5
Sensible Heat Ratio (W/W)	0.9	0.9	0.9	0.9	0.9
Air Volume (m ³ /h)	2000	2300	3200	5000	5500
Fan Type	AC or EC Fans				
Air Supply	Top Front Supply/Downflow Supply				
EEV	High Efficiency EC Fans				
Refrigerant	R410A				
Heating Capacity(kW)	3	3	3	6	6
Humidification Capacity(kg/h)	3	3	3	3	3
Power Supply Type	220V~50Hz		380V/3N~50Hz		
Single Cooling FLA (A)	10.8	15	10.9	14.2	14.8
Constant Temp. and Humidity FLA (A)	23	25	22	25	26
Weight (kg)	60	64	99	120	128
Dimension W×D×H (mm)	520×420×1748	520×420×1748	600×520×1798	700×700×1898	700×700×1898
FA series Outdoor Unit					
Outdoor Model (Nominal condition)	FA008APN	FA012APN	FA020APN	FA025APN	FA030APN
Power Supply Type	220V~50Hz				
Outdoor Weight(kg)	28	32	49	88	88
Dimension W×D×H (mm)	840×285×605	830×310×720	830×330×1245	1050×400×1560	1050×400×1560

Note:

1. The above parameters are based on indoor return air working conditions of 24 °C, 50% RH, outdoor ambient temp. 35 °C;
2. FLA parameters refer to the full load current of the standard model, including the current of the outdoor unit. The outdoor unit needs to be powered by the indoor unit.
3. Single cooling/constant temperature and humidity units are optional. Only the constant temperature and humidity model has heating and humidification functions.
4. For the downflow unit, it is recommended to have a minimum floor-to-ceiling height of 300mm. If the recessed fan option is selected, it is recommended to have a minimum floor-to-ceiling height of 400mm.
5. Customized products are available. For more parameters, please contact our com

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MateAir Series

Large Room Precision Cooling



Introduction

ACwatt's MateAir series is an advanced cooling solution for medium to large data centers, communication rooms, battery rooms, UPS rooms, and industrial equipment rooms. It provides efficient and reliable temperature control, ensuring a secure and stable environment for critical infrastructure and precision equipment.

Features

High Efficiency

- Full frequency conversion system design, high sensible heat ratio, high energy efficiency ratio.
- Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output.
- Utilize a V or A-shaped evaporator for high heat exchange efficiency.
- Variable-speed outdoor unit, the system operates consistently in high-efficiency mode.
- R410A refrigerant, international standard, environmentally friendly.

Simple

- 7" HMI colour touchscreen for easy operation and real-time display of information.
- Standard RS485 interface, optional SNMP interface, supports management of at least 64 units.
- Hierarchical password permissions, facilitating operation and maintenance management.
- Modular design, convenient for disassembly and assembly, no need to cut copper pipes.

Reliable

- High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.
- Multi-voltage compatibility reduces frequent start-stop operations of the devices.

Indoor Model(MA Series)	025	030	035	040	045	050	060
Total Cooling Capacity (kW)	27.1	30.6	36.3	41.2	45.3	51.2	60.2
Sensible Cooling Capacity (kW)	24.9	27.6	33.4	38.1	41.2	47.1	54.1
Air Volume (m ³ /h)	8550	9550	11100	12100	12550	13100	14000
Compressor Type	DC Variable Frequency Compressor (Single System)						
Compressor Number (pcs)	1	1	1	1	1	1	1
Fan Type	High Efficiency EC Fans						
Fan Number (pcs)	1	1	1	1	1	1	1
EEV	High Efficiency Electronic Expansion Valve						
Refrigerant	R410A						
Heating Capacity (kW)	6	6	6	9	9	9	9
Humidification Capacity (kg/h)	5	5	5	10	10	10	10
Power Supply Type	380V/3N~50Hz						
FLA (A)	36.5	40.8	41.6	45.7	50.0	54.5	64.6
Indoor Unit Weight (kg)	320	325	350	370	370	470	470
Dimension W×D×H (mm)	900*995*1975					1100*995*1975	
FA Series Outdoor Unit							
Outdoor Model (Nominal condition)	FA035APN	FA040APN	FA050APN	FA058APN	FA068APN	FA068APN	FA090APN
Power Supply Type	380V/3N~50Hz						
Outdoor Weight(kg)	126	135	140	150	166	166	185
Dimension W×D×H (mm)	1376×980×738		1576×1274×748	1776×1274×748	1976×1274×738		2576×1274×748
Indoor Model(MA Series)	060	070	080	090	100	110	120
Total Cooling Capacity (kW)	60.9	72.2	82.1	90.5	102.1	110.2	120.0
Sensible Cooling Capacity (kW)	55.0	66.5	76.0	82.1	94.0	100.1	108.0
Air Volume (m ³ /h)	19000	22000	24000	25000	26000	27000	28000
Compressor Type	DC Variable Frequency Compressor (Dual System)						
Compressor Number (pcs)	2	2	2	2	2	2	2
Fan Type	High Efficiency EC Fans						
Fan Number (pcs)	2	2	2	2	2	2	2
EEV	High Efficiency Electronic Expansion Valve						
Refrigerant	R410A						
Heating Capacity (kW)	9	9	12	12	12	12	12
Humidification Capacity (kg/h)	10	10	10	10	10	10	10
Power Supply Type	380V/3N~50Hz						
FLA (A)	68.6	70.3	78.6	86.8	96.0	106.0	116.0
Indoor Unit Weight (kg)	600	650	690	690	880	880	880
Dimension W×D×H (mm)	1800*995*1975				2200*995*1975		
FA series Outdoor Unit							
Outdoor Model (Nominal condition)	FA090DPN	FA050APN*2	FA058APN*2	FA068APN*2	FA068APN*2	FA078APN*2	FA090APN*2
Power Supply Type	380V/3N~50Hz						
Outdoor Weight(kg)	185	140*2	150*2	166*2	166*2	176*2	185*2
Dimension W×D×H (mm)	2576×1274×748	(1576×1274×748)*2	(1776×1274×748)*2	(1976×1274×738)*2		(2176×1274×738)*2	(2576×1274×748)*2

Note:

1. The above parameters are based on indoor return air working conditions of 24 °C, 50% RH, outdoor ambient temp. 35 °C;
2. The upper air supply unit has two air supply methods: Upflow air supply and top front air supply;
3. The default fan of the Downflow supply fan is sunken type, and the recommended net height of the floor is ≥ 400mm;
4. Customized products can be provided, if you need more parameters, please contact our company.

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Matinal AC5000 series

Modular Data Center



Introduction

ACwatt AC5000 is a complete self-contained modular data-center designed by ACwatt experts to enable rapid and risk-free IT deployments. With capacities up to 15 racks, integrating cooling, UPS, power distribution, and emergency ventilation, the AC5000 enables standardization of complete micro datacenter configurations across multiple locations.

Application

Small data centers and campus data centers, Banking, Financial and Insurance, Education, Healthcare, Manufacturing, Retail and Wholesale, Transportation.

Features

- High reliability, engineering productization, prefabricated installation, redundant design of key systems and components to enhance overall system reliability.
- Intelligent management, supporting various alert methods such as SMS, phone calls, emails, and audio-visual signals, with multiple human-machine interaction methods including remote apps, local LCD, and web interface.
- High energy efficiency, adopting high-efficiency intelligent modular UPS, integrated distribution design, various modes of rack/In-row precision air conditioning, closed channel deployment, empowering data centers to achieve optimal PUE.
- Factory pre-installation, standardized components, modular architecture, plug-and-play, facilitating rapid deployment of data services.

Model		AC5000
System	Cabinets number	1-15
	Power grid system	Single Phase: 220Vac,50Hz, 1Ph+N+PE; Three Phase: 380Vac, 50Hz, 3Ph+N+PE
	Ambient temperature	0-45°C
	IPxx	IP5X
Cabinet	Dimension (W * D * H) mm	600*L*2000 (W/O wheels)
	Display	10 inches touch screen LCD
	Lighting	LED lighting+RGB
	Cable entry	Up and Down
	Access control	Fingerprint + IC card + face ID
	Emergency cooling	Pop-up door
PDM	Input current	63-200A
	SPD	Class C
UPS	Capacity	3-10kVA 20kVA-120kVA
	Input	1P: 220Vac,50Hz,1Ph+N+PE; 3P: 380Vac, 50 Hz, 3Ph+N+PE
	Work operation	1P/1P; 3P/1P; 3P/3P
	Battery	Packs or cabinets
PDU		13*IEC C3+3*IEC C9 or customized
Cooling	Input	Connect to utility
	Capacity	3.5-25kW
	Installation	Rack or In-row
	Ventilation	Back to front
	Compressor	VF
Monitoring		Integrated intelligent monitoring screen
		Power monitoring(UPS, load)
		Smoke sensor
		Temp.and humidity sensor (option)
		Water leakage sensor
		Network Camera (option)
		Infrared sensor (option)
		SMS alarm (option)
		Acoustic-optic alarm (option)

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Daystar AC8000 series

Modular Data Center



Introduction

AC8000 series adopts a modular prefabricated design. Integrate power supply, UPS, precision cooling, cabinet, closed channel, and dynamic environment monitoring systems into one. Equipped with abundant sampling sensors, real-time unified monitoring and management, realizing automatic control and intelligent operation and maintenance. Improve the reliability, availability, and maintainability of the data center.

Application

Large data centers and campus data centers, Banking, Financial and Insurance, Education, Healthcare, Manufacturing, Retail and Wholesale, Transportation.

Features

- High Reliability
Prefabricated installation, redundant design of system components, improving overall system reliability.
- Intelligent Management
Supporting SMS, phone, email, sound and light alarms, and friendly HMI: remote APP, local LCD, WEB.
- High Efficiency
Equipped with high-efficiency modular UPS, integrated power distribution design, In-row AC refrigeration, closed channels, and reduced energy consumption.
- Simple Installation
Standardized engineering design, quick installation modular design, hot-swappable, easy to install and maintain.



Model		AC8000
System	Dimensions(W*D*H)mm	3600*L*2600
	IT Rate Power/Cabinet	3~12kW
	Door	Automatic sliding doors/Manual sliding doors
	Lighting	LED lighting+RGB
	Door Security	Fingerprint + IC card + face ID
	Ambient Temp.	0-45°C
	Ambient Humidity	10-95%
	Protection Level	IP20
	Installation	Installing on concrete floor or raised floor
Cabinet	Dimensions(W*D*H)mm	600/800 * 1200/1100 * 2000/2200
	Space Available	42U
	Cables Entry	Top and bottom
PDM	Input Way	Single input MCCB/Dual input ATS
	Rate Input	380/400/415Vac,50/60Hz
	Total Input Current	63~400A
	SPD	Class B/C (optional)
	Distribution type	Integrated UPS power distribution cabinet
UPS	Rate Capacity	Built-in maximum 180kVA, external 200kVA or more
	Input Frequency	50/60 , +-5Hz
	Output PF	1
	Battery	Built-in rack battery cabinet or external battery cabinet
PDU	Standard Type	IEC socket*2pcs, 16 ports (12*10A+4*16A)
Cooling	Cooling Capacity	12.5~60KW (In-row)
	Refrigeration method	forced air cooling
	Refrigerant	R410A
Monitoring	HMI Interface	23.8 Inch touch all in-one PC
	System Function	WEB remote access/centralized monitoring of power, environment, video, access control system
	Monitoring Parts	Smoke/Temp.& humidity/Water leakage/Infrared detector/Webcam/Door security/Firefighting
	Alarms	Email/SMS alarm (optional)/Sound and light alarm(optional)/ Phone voice(optional)/Phone APP(optional)

Statement: The products will continue to be innovative and optimized, which may lead to asynchronized updates of the actual product and promotional materials. Therefore, this document is for reference only and does not constitute any offer or commitment.

应用范围

SCOPE OF APPLICATION

Business Solution



Edge Computing



Micro Data Centers



Network Closets



Server Rooms



Small&Medium Data Centers



Industrial Power

Home Solutions

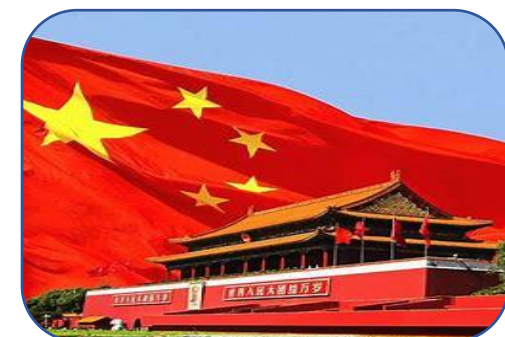


Home Office



Connected Home Gaming

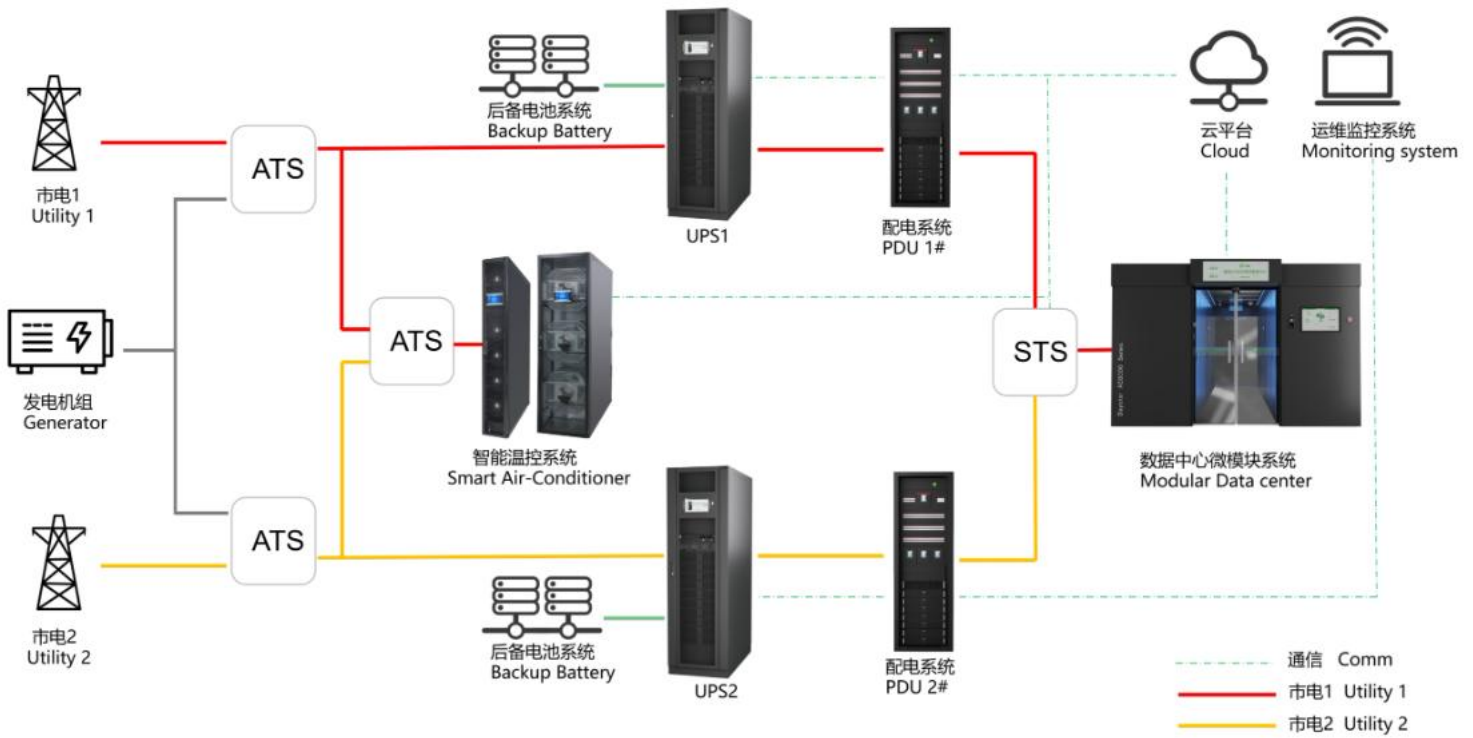
Government and Education Solutions



Government



Education



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