



For the green digital world



Gathering a team of well-known power electronics experts with more than 20 years of R&D and marketing experience, Shenzhen ACwatt power focuses on technology research and product development of integrated data center critical infrastructure solutions and new energy storage system solutions, dedicates to providing global customers with high reliability, high quality product solutions and a full range of quality service. Through the innovative integration of digital flows and energy flows, we enable changes in the global energy revolution to a green and zero-carbon future.

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.



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	AC600/50	AC600/60
Rate Power		200kVA/200kW	240kVA/240kW	300kVA/300kW	360kVA/360kW	600kVA/600kW	600kVA/600kW
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≥96%; Battery Mode≥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℃(operation); -25℃~70℃(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					

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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),<3% (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≥96%; Battery Mode≥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, Cold start			
	Option	SNMP card、AS400 card、Parallel kit、LBS、Air filter			
	Environment	0-40℃ (operation); -25℃ ~70℃ (storage); 0-95% (Humidity, non-condensing)			
	Noise(dB)(1 meter)	60dB @ 100% load, 58dB @ 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)			

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ACT Series

10~40kVA 3 phases Tower 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

- 7 inch touch LCD with IoT functions.
- Flexible configuration as 3/3, 3/1, 1/1.
- High power density, small volume.
- High reliability and environment adaptability.
- Modular design of battery strips, with internal batteries capable of configuring up to 12 battery module strips.



Model		TT010B	TT015B	TT020B	TT030B	TT040B
		TT010L	TT015L	TT020L	TT030L	TT040L
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				
	Model	UPS with internal batteries,12VDC/7~9Ah				
		UPS for external batteries,Settable				
	Quantity	UPS with internal batteries,120PCS				
		UPS for external batteries, 40PCS				
	Charging capacity	20%*Pout				
Bypass	Charging accuracy	±1%				
	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)				
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%				
Inverter	Frequency range	50/60Hz, Settable: ±1Hz, ±3Hz, ±5Hz				
	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≥96%; Battery Mode≥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				
	Environment	0-40℃ (operation) ; -25℃~70℃ (storage) ; 0-95% (Humidity, non-condensing)				
Dimension (W*D*H) mm		500*922*890				
		250*530*650				250*728*650

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