



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, Zhongtian Broadband 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.

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ZTM 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	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≥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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ZTM 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						
	Rate voltage	±240VDC						
Battery	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≥96%; Battery Mode≥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℃(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*2000		2000*1000*2000		2800*1000*2000		3600*1000*2000
	Module(W*D*H)mm	442*659*174						
Weight	Cabinet(W*D*H)kg	608		1100		1600		2100
	Module(W*D*H)kg	41						
Power Module rated capacity		50KW	62.5KW	50KW	62.5KW	50KW	62.5KW	

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ZTM 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.



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≥96%; Battery Mode≥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℃(operation); -25℃~70℃(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*555*85 (2U)	

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ZTM 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≥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, Bottom entry kit, Wheels kit			
	Environment	0-40℃(operation); -25℃~70℃(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)			

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ZTM 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≥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, Bottom entry kit, Wheels kit								
	Environment	0-40℃(operation)； -25℃~70℃(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)								

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ZTT 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
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%								
	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 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				
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（W*D*H)mm	600*1000*1600					600*1000*2000			1200*1100*2000	

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ZTT Series

10~80kVA 3 phases Tower UPS



Power range

10~80kVA



Operation

3P/3P, Online double conversion



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 12 battery module strips.

Rack model power module



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							
Battery	Rate voltage	±240VDC							
	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≥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, Air filter							
Option		SNMP card, AS400 card, Parallel kit, LBS, Cold start							
Environment		0-40℃ (operation) ； -25℃~70℃ (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		

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ZTT 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°				
	Efficiency	Normal Mode≥96%; Battery Mode≥96%				
System	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	0-40℃ (operation) ; -25℃~70℃ (storage) ; 0-95% (Humidity, non-condensing)				
Dimension (W*D*H) mm		440*774*130 (3U)				440*788*174 (4U)

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ZTS 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	
	Quantity		
	Max charging		
	Rate voltage		
	Crest factor		
	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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ZTS 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	Model	External batteries,16-24 settable	
	Quantity		
	Max charging		
	Rate voltage		
	Crest factor		
	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)	

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ZTS 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	1A	5A	1A	5A	5A
	Rate 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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ZTS 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			
Output	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		
Overload	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)	58	16	62	18

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ZTS 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					
Output	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				
Transfer time	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	
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/7Ah
	Quantity	3		6		8
	Max charging	1A	1-12A(settable)	1A	1-12A(settable)	1A
	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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ZTS Series

1~3kVA online Rack 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		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*440*86	440*580*86	440*440*86
Weight (kg)		12.5	7	19	7	21	10

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ZTM 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.



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	AC600/60-H	AC720/60-H
Rate Power		240kVA/200kW	360kVA/360kW	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			
Battery	Rate voltage	±240VDC			
	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%, 1min >150%,300ms	110%, long time operation 110%< load<125%, 5 mins 125%<load<150%,1 min >150%,1 second		
Inverter	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)			
	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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ZTM 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 ≥93%;Battery Mode≥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℃(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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ZTM 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, Wheels kit	
	Environment	0-40℃(operation) ; -25℃~70℃(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)	

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.

ZTM 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, Wheels kit		
	Environment	0-40℃(operation) ; -25℃~70℃(storage) ; 0-95% (Humidity, non-condensing)		
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load		
Dimention	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)		

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