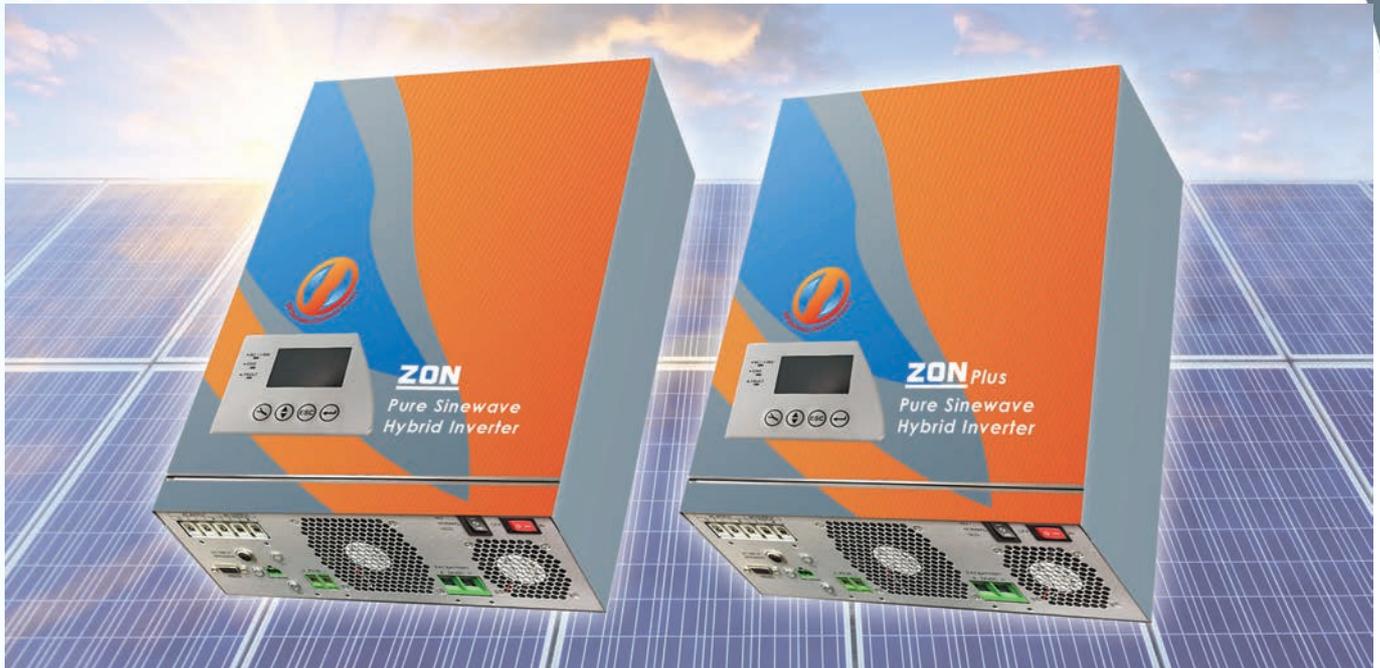
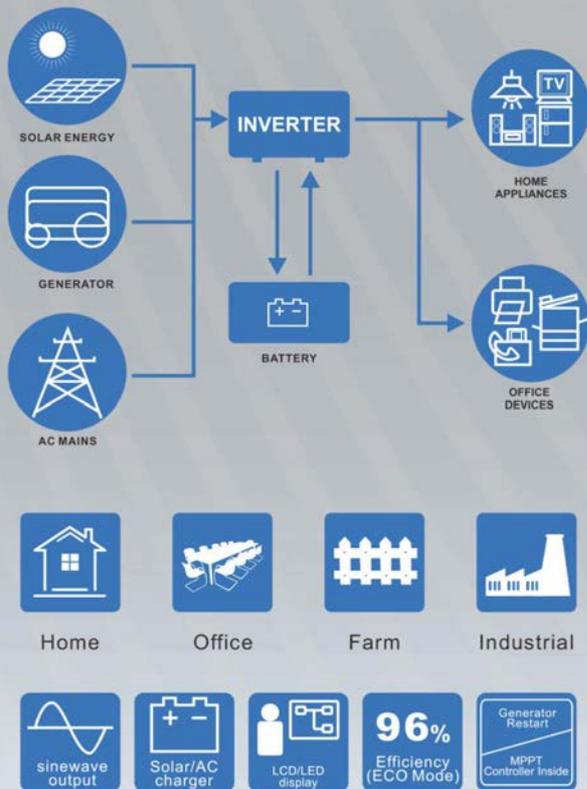


ZON Pure Sinewave Hybrid Inverter



Application:



ZON & ZON Plus Hybrid Inverter

ZON series solar charge controller can maximize and regulate DC power from solar array to charge battery bank to start up motor-type loads such as refrigerators, motors, pumps, compressors and laser printers as well as electronic loads like TV's,

Features:

- AC/Solar charge hybrid off grid inverter.
- LED/LCD display, Enhanced functions setting via LCD, Man-machine intelligent design.
- Built-in 40A/60A MPPT solar charger controller.
- External remote display panel.
- Adjustable 5 stages AC charging current.
- AC charging also can be closed.
- AC/DC priority modes can be set.
- Generator restart signal (Dry contact).
- 3 times peak power, Strong loading capacity.
- Overload, output short-circuit protection.

Model		ZP1KVA	ZP2KVA	ZP3KVA	ZP4KVA	ZP5KVA	ZP6KVA	ZP8KVA	ZP10KVA	ZP12KVA	
Power Rating		1000W	2000W	3000W	4000W	5000W	6000W	8000W	10KW	12KW	
AC Input	Input Voltage Waveform	Sinusoidal (utility & generator)									
	Nominal input Voltage	120/230VAC						230VAC			
	Low Line Disconnect	85Vac±4%(Normal) or 80Vac±4%(Wide) for 120Vac 184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac						184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac			
	Low Line Re-connect	95Vac±4%(Normal) or 85Vac±4%(Wide) for 120Vac 194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac						194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac			
	High Line Disconnect	136Vac±4%(Normal) or 140Vac±4%(Wide) for 120Vac 263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac						263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac			
	Max AC input Voltage Frequency	120Vac for Max 150Vac, 230Vac for Max270Vac 50Hz:41-54Hz, 60Hz:51-64Hz						230Vac for Max270Vac			
AC Output	Output Voltage Waveform	Sine wave									
	Power Factor	0.9~1.0									
	Nominal Output Voltage (V)	LV:120Vac ±10%rms, HV:230Vac ±10%rms						HV:230Vac ±10%rms			
	Nominal Output Frequency (Hz)	60Hz ± 0.3Hz, 50Hz ± 0.3Hz									
AC Charger	Nominal Charge Current	20A/35A/50A/70A/90A (adjustable 5 stages charging current)									
	Charge Current Regulation	± 5A _{dc}									
	Over Charge Protection	Bat.V≥15.5VDC for 12V battery, Bat.V≥31.0VDC for 24V battery Bat.V≥62.0VDC for 48V battery, beeps 0.5s every 1s & fault after 60s									
Solar Charger	Rated Charge Current	40A	60A	60A	60A	60A	60A	60A	60A	60A	
	Max.PV open circuit array voltage	12V for 40Vdc, 24V for 55Vdc, 48V for 110Vdc									
	Charger mode	MPPT									
	PV Low Voltage Re-connect	PV≥Bat.V= 3V									
	PV Low Voltage Disconnect Efficiency	PV≤Bat.V ≥97%									
Efficiency	Efficiency (Battery Mode)	≥85%									
	Efficiency (Line Mode)	≥96%									
Battery Voltage	Nominal DC input Voltage	12/24/48VDC			24/48VDC			48VDC			
	Low Battery Alarm	10.5VDC±0.3VDC for 12VDC, 21VDC±0.6VDC for 24VDC, 42VDC±1.2VDC for 48VDC									
	Low DC input shut-down	10VDC±0.3VDC for 12VDC, 20VDC±0.6VDC for 24VDC, 40VDC±1.2VDC for 48VDC									
	High DC input Alarm & Fault	16VDC±0.3VDC for 12VDC, 32VDC±0.6VDC for 24VDC, 64VDC±1.2VDC for 48VDC									
Transfer Time	AC to DC	6 ms(max)									
	DC to AC	6 ms(max)									
System Parameter	Over-Load Protection	110%<load<150%, beeps 0.5s every 1s, and Fault after 60s off the output, load>150%, beeps 0.5s every 1s, and Fault after 20s									
	Output Short Circuit Protection	Current limit(Fault after 10s)									
	Surge Rating(10s)	1:3(VA)									
	Power Saver	Load≤25W(Enabled on "P/S auto"Setting of Remote control)									
	Protections Indicators	Low battery,over charging,over load,over temp LED+LCD Display									
General Specifications	Operating Temperature Range	0°C to 40°C									
	Storage Temperature	-15°C~60°C									
	Operation humidity	5% to 95%(non-condensing)									
	Audible Noise cooling	60dB max Forced air,variable speed fan									
	Dimension(L*W*H)	480*336*190mm			530*396*190mm			627*416*204mm			
	Net Weight(kg)	22.5kg	23.8kg	28.0kg	29.8kg	35.0kg	40.0kg	48.0kg	55.0kg	61.5kg	

◆ Product specifications are subject to change without further notice.

Model		SP3KVA	SP5KVA
Power Rating		2500Watts	4200Watts
AC Input	Input Voltage Waveform	Sinusoidal(utility & generator)	
	Nominal input Voltage	220/230VAC	
	Low Line Disconnect	95Vac±4%(Normal)	
	Low Line Re-connect	115Vac±4%(Normal)	
	High Line Disconnect	275±4%(Normal)	
	Max AC input Voltage	275Vac	
	Frequency	50Hz:41-54Hz	
AC Output	Output Voltage Waveform	Sine wave	
	Nominal Output Voltage (V)	230Vac ±10%rms	
	Nominal Output Frequency (Hz)	50Hz ± 0.3Hz	
AC Charger	Nominal Charge Current	20A/35A/50A/70A/90A(adjustable 5 stages charging current)	
	Charge Current Regulation	± 5Adc	
	Over Charge Protection	Bat.V≥15.5VDC for 12V battery, Bat.V≥31.0VDC for 24V battery Bat.V≥62.0VDC for 48V battery, beeps 0.5s every 1s & fault after 60s	
Solar Charger	Rated Charge Current	60A	60A
	Max.PV open circuit array voltage	12V for 40Vdc, 24V for 55Vdc, 48V for 110Vdc	
	Charger mode	MPPT	
	PV Low Voltage Re-connect	PV≥Bat.V= 8V	
	PV Low Voltage Disconnect	PV≡ Bat.V	
	Efficiency	≥97%	
Efficiency	Efficiency (Battery Mode)	≥85%	
	Efficiency (Line Mode)	>96%	
Battery Voltage	Nominal DC input Voltage	12/24/48VDC	24/48VDC
	Low Battery Alarm	10.5VDC±0.3VDC for 12VDC, 21VDC±0.6VDC for 24VDC, 42VDC±1.2VDC for 48VDC	
	Low DC input shut-down	10VDC±0.3VDC for 12VDC, 20VDC±0.6VDC for 24VDC, 40VDC±1.2VDC for 48VDC	
	High DC input Alarm & Fault	16VDC±0.3VDC for 12VDC, 32VDC±0.6VDC for 24VDC, 64VDC±1.2VDC for 48VDC	
Transfer Time	AC to DC	4~6ms(max)	
	DC to AC	4~6ms(max)	
System Parameter	Over-Load Protection	110%<load<150%, beeps 0.5s every 1s, and Fault after 60s off the output, load>150%, beeps 0.5s every 1s, and Fault after 20s	
	Output Short Circuit Protection	Current limit(Fault after 10s)	
	Surge Rating(10s)	1:3(VA)	
	Power Saver	Load≤25W(Enabled on "P/S auto"Setting of Remote control)	
	Protections	Low battery,over charging,over load,over temp	
	Indicators	LED+LCD Display	
General Specifications	Operating Temperature Range	0°C to 40°C	
	Storage Temperature	-15°C~60°C	
	Operation humidity	5% to 95%(non-condensing)	
	Audible Noise	60dB max	
	cooling	Forced air,variable speed fan	
	Dimension(L*W*H)	480*336*190mm	530*396*190mm
	Net Weight(kg)	23.8kg	29.8kg
Surge & Noise Suppression	Max. Continuous operating Voltage Uc(V/AC)	385	
	Voltage Protection Level Up(KV)=<	1.5	
	Max. Discharge Current I _{max} (8/20μS) KA	2KVA	
	Nominal Discharge Current I _n (8/20μS) KA	10KVA	
	Response time ns	<25ms	
	Protection Grade	IP20	
	Indication of invalidation	Aging Invalidation, white: normal; red: invalidation	
	Wave Form	8/20us	
	Surge energy rating	600 joules	
	Material Of Transformer	100% copper	
	Transformer Type	ISOLATION	
	Ground Nutrural V-+	0.1~ 0.4V	

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