



ON/OFF GRID PV INVERTER

Hybrid Inverter PSX series



Product introduction:

PSX series is a new all-in-one solar charge inverter, which integrates solar energy storage & utility charging energy storage and AC sine wave output. Thanks to DSP control and advanced control algorithm, it has high response speed, high reliability and high industrial standard. Four charging modes are optional, i.e. Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging; and two output modes are available, i.e. inverter and Mains, to meet different application requirements

Performance characteristics:

- Three output modes, when the grid-connected function is enabled, grid-connected power generation or anti-reverse-current can be set, and it can also be set to off-grid output mode.
- Four charging modes, mains priority charging, solar priority charging, mains solar hybrid charging and solar only charging.
- Emergency function, support battery-free output and only PV start and load, with battery activation function.
- Parallel function, it can be flexibly combined to achieve up to 9 parallel machines.
- Protection function, perfect hardware and software protection function.
- The host computer and the APP cloud communication.

Model	PSX-3.5KW	PSX-5.5KW	PSX-10KW
INVERTER OUTPUT			
Rated output power (W)	3500	5500	10000
Rated output power (VA)	3500	5500	10000
Maximum Peak Power (W)	6000	10000	15000
Load Capacity with Motors	2HP	4HP	6HP
Rated AC Output	230 Vac (200 / 208 / 220 / 240 Vac), 50 / 60Hz		
Output Voltage Waveform	Pure Sine Wave		
Inverter and Bypass Switching Time	10ms (typical)		
Parallel Capacity	9		
Maximum Battery Inverter Efficiency	93%		
Overload Protection	102%~110%, 5mins; 110%~125%, 10s; >125%, 2s		
BATTERY			
Battery Type	Lithium / Lead-acid / User Defined		
Rated Battery Voltage	48V		
Battery Voltage Range	40-60Vdc		
Max.MPPT Charging Current	60A	100A	200A
Max.Mains Charging Current	60A	60A	120A
Max.Hybrid Charging Current	80A	100A	200A
PV CHARGING			
MPPT Quantity	1		2
Max. PV array power	4000W	5500W	5500W+5500W
Max. PV input current	13A	22A	22A+22A
Max. Open Circuit Voltage	500Vdc		500Vdc+500Vdc
MPPT Voltage Range	120-450Vdc		
MPPT Tracking Efficiency	99.9%		
MAINS INPUT			
Input Voltage Range	90-280Vac/170-280Vac		
Frequency Range	50/60Hz±0.3Hz		
Output Short Circuit Protection	Circuit breaker		
Bypass Overload Current	30A	40A	63A
SPECIFICATIONS			
Dimensions (W*D*H-mm)	130*350*455		130*445*630
Weight (kg)	11	12	27
Classification of waterproof	IP20		
Operating Temperature Range	-10 °C~55 °C		
Noise	<60dB		
Heat Dissipation	Forced air cooling (variable speed of fan)		
COMMUNICATION			
Embedded interface	RS485 / CAN / USB / Dry contact		
External module	WIFI/GPRS		