



Wall Mounted Solar Inverter(MPPT)

> PSW0.5K-Pro-PSW10K-Pro



Overview



PSW-Pro series off grid wall mounted solar inverter with three CPU controller, Line interactive UPS design concept, all digital control of the real pure sine wave output; built-in digital solar charge controller, convenient and simple; use the toroidal transformer with superior impact resistance capacity, to meet the requirement of different equipment; Adjustable AC charging voltage and charging current, free choice of working mode, to meet different types of the user's requirements.

Technical Features



High frequency switching technology



Multiple protection technology



Green power technology



Battery management technology



MPPT control technology



Network monitoring technology



CPU1 + N control technology

Working modes

Regular Mode : When there is electricity power, the AC charging function is always maintained. If the system is equipped with a solar charge controller, the PV is always charged, and the solar energy is charged simultaneously with the electricity power.

Solar Energy Priority Mode : Solar energy charging is priority. When the sun is there, and the AC charging function is turned off. Start up the AC charging function when there is not enough sunlight.

Energy Storage Priority Mode : When there is solar energy and electricity power are provided, electricity input is off, solar charging and inverter output. When there is few sunlight, charged by electricity and stabilized voltage output; If the solar energy and electricity power are concurrent interruption, inverter output.

Solar Energy Priority, Energy saving mode : Turn off the AC charging function when sunlight is sufficient, and turn on the AC charging function when sunlight is few. If solar energy and electricity power are concurrent interruption, inverter output.

Technical Specifications

Model		PBW0.5K-Pro	PBW1K-Pro	PBW1.5K-Pro	PBW2K-Pro	PBW3K-Pro	PBW4K-Pro	PBW5K-Pro	PBW6K-Pro	PBW6K-Pro-M	PBW8K-Pro	PBW10K-Pro		
AC Input	Voltage Range	100/110/120/127/220/230VAC(+25%,-36%)			100/110/120/127/220/230VAC(±25%)									
	Frequency Range	50/60 Hz±2.5Hz												
MPPT PV Input	Start-up Voltage	18V/34Vdc		34Vdc	34V/65Vdc			65Vdc			130Vdc			
	Max Input Voltage	150Vdc									180Vdc			
	Charging Current	20A/50A (Optional)		30A Default	40A/50A/80A			60A Default		100A				
Output	Rated Power	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W	6000W	8000W	10000W		
	Instantaneous Power	1500W	3000W	4500W	6000W	9000W	12000W	15000W	18000W	18000W	24000W	30000W		
	Wave Form	Pure Sine Wave												
	Battery Efficiency	81%		83%				85%			90%			
	AC Efficiency	93%												
	Output Voltage	100/110/120/127/220/230VAC									(AC mode ±10%, Battery Mode ±5%)			AC mode: the same as Input; Battery mode± 10%
	Output Frequency	50Hz/60Hz ± 0.5Hz (AC Mode ± 2.5Hz)												
	Transfer time	4ms/8ms Optional												
USB Output	DC 5V/1A × 1+5V/2A × 1 (Optional)													
Battery	Voltage	12V/24Vdc		24Vdc	24Vdc	48Vdc	24V/48Vdc		48Vdc			96Vdc		
	Charging Current	0~20A	Adjustable		0~40A	0~30A	0~40A		Adjustable (40A Default)					
LCD	Method	LCD+LED												
	Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV status and specification, PV Cumulative power generation												
Protection	Battery Reversal	Optional					Standard for External LiFePo4 batteries							
	Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down												
	Overload	If Overload 105%, Inverter will alarm.If Overload 130%, Inverter will shut down in 10s. Once the inverter is off, It must be turned on manually												
	High AC Voltage	Turn off AC, Turn to Inverter mode automatically												
	Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically												
	Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down												
Environment	Humidity	15 ~ 93% (No condensation)												
	Temperature	-10℃ ~ 55℃ (at full load) / -10℃ ~ 80℃ (at half load)												
	Altitude	≤3000m												
Dimension: D × W × H(mm)		450X280X165mm				650X370X190mm					700X406X225mm			
Dimension:D × W × H(mm)		570X400X240mm				750X492X240mm					810X540X320mm			
Weight	N.W.(KGS/PC)	12.0	13.9	15.6	25.2	30.1	33.3	38.3	43.0	51	56	61		
	G.W.(KGS/PC)	14.0	15.9	17.6	28.8	35.5	36.8	41.9	46.6	54.6	59.6	64.6		

* Note: The descriptions, illustrations and specifications give in the pamphiet are subject to alteration without notice.

