

SMART IPS

Description

Smart series Instant Power Supply (IPS) pure sine wave off-grid solar system integrates solar controller, inverter and battery box together, easy installation and useful. The system inverts DC to AC and directly supplies for terminal load, solving the basic problem of electricity. Mostly applied for places without electricity or certain applications e.g. residential power supply, field work, travel sites, night market stalls, etc.



Features

- * Save energy, eco-friendly
- * Integrated design with controller, LCD smart display, inverter and battery box
- * Easy installation, simple and useful
- * Reliable power supply, safety performance
- * Intelligent battery management
- * Multiple protections: DC & AC over voltage, over current, over temperature, short circuit etc
- * With isolation transformer, can support electric fan, washing machine, ice-box

Application

Home, Office, Shop, Hospital, Etc.



Technical Specifications

Model	PCM 600SW	PCM 800SW	PCM 1000SW
Max Output power	480W	640W	800W
Battery Voltage	12vdc	12vdc	12/24vdc
PV input voltage range	30 - 50VDC optional		
Max. charge current	10A		10A
Inverter			
PV Panel Power	120%	120%	120%
Output voltage	110/220/230/240Vac±10%		
Output frequency	50/60HZ±1HZ		
Output wave type	pure sine wave		
THDI	<3% (linear load)		
Output voltage regulation	<5% (Load 0~100%)		
Input current crest factor	3		
Over load capacity	100-125% 10min; 125-150% 1min; 150-200% 10s		
Battery			
Battery type	Lead-acid battery/Gel battery		
Battery capacity	200AH Max		
Battery rated voltage	12/24VDC		
Battery floating charge voltage	13.6/27VDC		
System			
Display	LCD+LED		
Display content	PV indicator, battery capacity, AC voltage, load percentage,		
Inverter protection	AC over voltage, AC short circuit, DC over voltage, DC under voltage, over temperature, etc		
Cooling method	Air cooling		
Communication interface	RS232 optional		
Operating temperature range	-20°C ~ +55°C		
Relative humidity in operation	0 ~ 95% (non-condensing)		
Storage temperature range	-20°C ~ +70°C		
Max. operating altitude	5000m (>3000m derating)		
Noise emission	<55dB (distance in 1m)		
Efficiency	>85%		
Ingress protection rating	IP20		

Power Control & Management

