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Solar PV Inverter CUM Instant Power Supply (IPS)

Product Descriptions

Smart series Instant Power Supply (IPS) pure sine wave off-grid solar system integrates solar controller (optional), 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.



Product Features

- Save energy, eco-friendly
- AC/Solar charging off grid inverter
- LCD display functions setting via LCD
- Man-machine intelligent design
- Adjustable AC charging current & AC charging also can be closed
- AC/DC priority modes can be set
- Multiple protections: DC & AC over voltage, over current, over temperature, short circuit etc
- Intelligent battery management
- Easy installation, simple and useful
- Reliable power supply, safety performance

Product Applications

Solar Inverter is designed for solar AC application to house, hospital and others

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Product Specifications

Model (b-Bat Volt and s-System Size)	PCM-bV-sVA	PCM-bV-sVA	PCM-bV-sVA
Max Output power	500-1200	1500-2000VA	3000-10000VA
Battery Voltage	12/24/48vdc	24/48vdc	48/96vdc
Battery input voltage	Less than 16 V for each battery terminal		
Max. charge current	C/10 of Battery(Adj)		
Inverter			
Output voltage	220/230/240Vac±10%		
Output frequency	50/60HZ±1HZ		
Output wave type	pure sine wave		
THDI	<3% (linear load)		
Output voltage regulation	<3% (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 capacity	150AH		
Battery rated voltage	12/24/48/96VDC (Optional)		
Battery floating charge voltage	2.34v/cell (Adj)		
System			
Display	LCD+LED (Optional)		
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		

N.B: Product specifications are subject to change without further notice.

Power Control & Management

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