

It runs with
the Sun

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PWM -Solar Inverter Product Descriptions

POWERCOM'S i-TEAM (Innovation Team) developed solar hybrid Inverter based upon customer perspective what he does really want. It is fool proof and robust design for light inductive load. Hybrid means charge up batteries from PV and mains. More elaborately it will charge the battery from sun power in case not charge completely automatic charge from the normal Grid electricity.

PCM series single-phase off-grid inverter consists of 3 functional modules: solar controller, simulated sine wave inverter and insulated transformer. Solar controller has been introduced inside optionally based on requirement of customer. The controller adapts either MPPT or PWM technology and intelligent battery management design which is very efficient and smart; integrated simulated sine wave inverter and low frequency isolated transformer makes it with excellent overload performance, suitable for a variety of electrical appliances. It supports city power/generator input, take advantages of old diesel generators, saving initial investment and operation maintenance cost.

Main Features

- * Pure sine wave output
- * DSP Based Intelligent Control Circuit
- * Easy to install and operate
- * Single card system to repair easily
- * User selectable UPS and Normal mode
- * Battery State Monitoring
- * Future Expandability possible
- * Generator Compatible
- * No noise
- * Less than 4 m/s Transfer time (Routers, Switches, Servers and ATM will never re-start at mains failure)
- * IBM charging technology: Intelligent Battery Management improves power factor upto 0.9 & cuts down the electricity bill
- * Battery Temperature Controller: Improves battery life up to 35% while standardizing the limit of temperature inside the battery by controlling the parameters of charging
- * User selectable charging current with high charging option(up to 17 amp)
- * Battery Equalization system to enhance battery life
- * Protection against short-circuit, overload, over-charge
- * battery reverse polarity
- * User friendly LED Display (Message and Faults) / LCM optional
- * Charging from solar (PV) to battery Compatible
- * Low total Harmonic Distortion (THD)
- * LCD & LED dual display system
- * Even Air conditioner can also run on and above 3.5 KVA Static inverter
- * Software Gateway: ASC technology - Assessing system configuration it verifies all critical system parameters at the time of start and during the running of the system
- * ECAC Technology: Error correct Analogue compare for low THD- produces electricity just like as your mains supply
- * Minimizes the chance of rebooting and restarting of sensitive equipments like computer, DVD player, Medical equipments etc. during changeover period(It works like a static inverter)

Main Applications

- * Remote power solution
- * Animal husbandry, fishery area and big family to solve people's electricity problems.
- * Hospital and educational institute where emergency power need
- * ISP Booth
- * BTS Tower
- * All AC applications



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TECHNICAL SPECIFICATION

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Model: PCM- XX00W1B	TECHNICAL SPECIFICATION FOR STATIC HYBRID UPS									
	200	400	500 /600	800\ 1000	1200	1500	2000	2500	3000	4000
Output Power	200 W	400 W	600 W	1000 W	1200 W	1500K W	2000 W	2500 W	3000 W	4000 W
Battery Voltage (Vdc)	12V			12V or 24V			24V or 48V			
Solar charger parameters										
Charger Type	PWM/MPPT									
Allowable DC Input from PV panel	500W	1000W	1200W	2000W	2500W	3000W	4000W	5000W	6000W	8000W
PV Input Voltage	30~50Vdc(12VDC BATT)/30-90Vdc(24VDC BATT)//70~150Vdc(48VDC BATT)									
Max. pv Input Current	Customized									
Max. Output Current	Customized									
Battery Float Voltage	13.6V X1									
Battery Equalizing Charge Voltage	14.4VX1									
AC charger parameters										
City Power Input Voltage Range	160~270Vac (50Hz)									
City Power Input Frequency	50/60Hz±3%									
AC Charging Current	Standard: 10A; Max: 20A									
Inverter parameters										
Inverter Output Voltage	220Vac±3% (or other output voltage)									
Inverter Output Frequency	50Hz/60Hz±1%									
Efficiency	>85%									
Overload Capacity	105~120%, restart in 30s; 120~150%, shutdown in 10s; >150%, shutdown in 5s; short circuit, <0.1ms									
Current Crest Factor	3									
Output Wave	Simulated sine wave									
General parameters										
Display	LCD+LED									
Display Content	PV status, battery capacity, AC input voltage, AC output voltage, Load, running status									
Complete	DC&AC overload, Under-voltage, SPD, Short-circuit, Overcharge, Over discharge, Over-									

* The technical specifications are subjected to change without prior notice.

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