

It runs with  
the Sun**PowerCom**

## Solar Inverter with in-built PV Charger

### Products Description

True or simulated Sine wave Solar hybrid inverter can charge the battery from sun power in case not charge completely automatic charge from the normal Grid electricity. Solar priority charger can optimize utility power and saves your utility bills. Integrated design and zero loading effective any critical loads like for light, fan, led tv and PC and PC will not reboot once blacked out of electricity.

1. BLE (Battery Life Enhancer) - Removes sulphation and increase the life of the battery. Hence it increases the reliability of the product.
2. Precise Engineering- gives precise and accurate switchovers so that there are minimal chances of rebooting of computers and therefore no damage of precious appliances.



4. Yellow Mode and Green Mode- In no load status, Yellow mode comes into picture to reduce the no load current to one third. If the load is not there for 10 hours the inverter output goes into Green mode i.e. it shutdown itself & saves the battery power for the next use. In turn it avoids the battery from the deep discharge condition.

5. Battery Blast Protection (Thyristor Short Circuit Protection) - In case of thyristor short circuit, microprocessor shuts down the chargers. It's like cut off the supply to the faulty chargers to save battery from bulging or burst.
6. Advance Power Saver- Improve the power factor of electricity consumed and thus saves the wastage of electricity.

### Products Features

1. Atom Technology -Micro controller based, less components, small size, more efficiency
2. Advance Power Saver Inside - Corrects Power Factor, electric bill saving
3. Battery Life Enhancer (BLE) - removes sulphation from plates, better backup & battery life , 35% increase in life,
4. Battery Temperature Control (BTC) - battery temp. controlled, water topping after 8 months
5. Battery Equalizer - same battery voltage in 24V inverters, safety of battery, optimum utilization of batteries
6. Gravity Profile Management - adjust the charging voltage for aging batteries, avoids bulging/ swelling
7. Precise Engineering - accurate A/C high & low cuts, avoids rebooting of computer

## Power Control & Management

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Be Smart Be Green

### Products Application

House, hospital, commercial shop and bank for solar application.

## Products Specifications

MODEL		PCM-650 to 850SI	PCM-1000 to1500SI
SYSTEM(DC) VOLT		12/24 VOLT	24 VOLT
RATED CAPACITY(AC) VA		600/650VA or 800/850 VA	1000/1200VA or 1450/1500 VA
SOLAR PANEL CHARGING	Max Up to	40 AMPS	40 AMPS
SOLAR BATTERY SIZE( Watt-Hour) (ALB)		4 TIMES OF PANEL WATTAGES	
SOLAR LOAD SIZE (Watt) (ALR)		125% GOOD ;140% EXCELLENT	
BATTERY	Charging Volt	14.4 V @12V SYSTEM/28.8 V@24V SYSTEM	
	Low Battery Shutdown	10.5 V ± 0.2@12V SYSTEM/20.5 V ± 0.2@24V SYSTEM	
	Battery Over Volt & Over charging protection	Yes	
	Battery Charging on Solar	10 % of Battery Ah(C@10A)	
AC INPUT	Voltage	100 V TO 280 V	
	Frequency	50 Hz ±3.0 Hz	
	Phase	1 Phase 3 Wire	
OUTPUT VOLT ON MAINS MODE		Same as Input	
OUTPUT VOLT ON DC MODE		220 V + - 5%	
OUTPUT FREQ		50 Hz ±0.1 Hz	
WAVE FORM		Sine Wave or Simulated Sine Wave (Optional)	
MAX OUTPUT LOAD	On Solar PV only	80 % of the PV PANEL WATT	
	On Battery + Solar	200 % of the PV PANEL WATT	
	On Mains IN	300 % of the PV PANEL WATT	
SWITCHING FROM MAINS TO SOLAR/BATTERY		Automatic	
CHARGING DUAL MODE		CCCV & Solar charger	
EFFICIENCY		> 92 %	
INVERTER OVERLOAD		120%	
INVERTER SURGE CAPACITY		300%	
TECHNOLOGY		Low frequency with Stand Alone Microcontroller Based Hybrid Design	
DISPLAY (OPTIONAL)		LCD/LED	
AUTORESET FEATURE		YES	
HUMIDITY FACTOR		Max 65% non - condensing	
GROSS WEIGHT (kg)		Customized	
DIMENSION (mm)		Customized	

\* The technical specification is subjected to change without prior notice.

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