

Solar Power Conditioning Unit



- Advanced microprocessor to optimize operation processes
- LCD display
- Inbuilt MPPT/ PWM technology charge controller
- Solar prioritisation
- High efficiency

These Solar Power Conditioning Units are a new generation of inverters, changing DC energy from solar modules into clean, stable AC power. PCUs are designed for highest efficiency: Integrated advanced microprocessor technology combined with pure sine wave output makes them the perfect

choice to use with high-end electronics and electrical equipment. We combined high quality MOSFETs with MPPT-technology and added Solar Prioritisation as an additional feature to offer you a device that is clearly ahead of its competitors.

*Charge Controller Specification:-

Type	MPPT	PWM
Max Input PV Voltage (Voc)	85V DC	40V DC
Max PV Input (Vmp)	12V/24V/48V Auto recognition	12V / 24V
Charging Current (Imax)	30A	30A(at 12V system) / 40A(at 24V system)
Efficiency	97% Peak	92% Peak
Max PV Array (Wp)	750Wp	1000Wp

Typical Loads Suitable for Usage:-

- CFL Lamp
- Incandescent Lamp
- Fluorescent Lamps
- Table Fan / Ceiling Fan
- TV
- Computer



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Nominal output power	450VA 350W	650VA 500W	800VA 650W	1400VA 1000W
Battery Voltage	12V DC			24V DC
Input AVR range	110V AC to 275V AC ± 5 V AC			
Input frequency	50Hz $\pm 5\%$			
Output frequency	50Hz $\pm 5\%$			
Output wave form	Pure Sine Wave with less than 3% THD			
Output voltage in INVERT	ER 220VAC $\pm 5\%$			
Output voltage in MAINS	Same as Input Voltage			
Solar Charge controller*	MPPT / PWM			
AC Charging Current	2A to 8A auto programmed			
Inverter efficiency	>85%			
Power factor	0.8			
Typical transfer time	< 15ms in UPS mode / < 40 ms in INVERTER mode			
Battery LVD Cut off	10.8V $\pm 0.2V$			21.6V $\pm 0.2V$
Load Reconnection	12.6V $\pm 0.2V$			25.2V $\pm 0.2V$
System Output Condition:-	When the battery is charged fully, System output will be automatically change over to UPS mode, and resume back only by 12.3 V +/- 0.2V / 22.6 +/- 0.2V when PV is available. If PV is not available system will be automatically switch over to Mains mode after 30 minutes.			
Charging priority:	Battery is always charged through Solar as priority.			
AC Input Range INVERTER Mode	Grid Low cut off / Recovery : 110V AC $\pm 5V$ / 120V AC $\pm 5V$ Grid high cut off / Recovery : 270V AC $\pm 5V$ / 265V AC $\pm 5V$			
AC Input Range UPS Mode	Grid Low cut off / Recovery : 170V AC $\pm 5V$ / 180V AC $\pm 5V$ Grid high cut off / Recovery : 250V AC $\pm 5V$ / 245V AC $\pm 5V$			
Protection	Over Load, Over Charge, Phase Reversal, Over Temperature, Surge, PV Reverse Polarity, Reverse Current Flow, Phase Reversal, Over / Under input Voltage			
Displays	Battery Voltage, Load Level, UPS ON, Mains ON, MPPT ON, Battery Full mode after 30 minutes.			
Power Saving Recovery Time	5 Seconds			
Enclosure Rating	IP20			
Environmental	Operating temperature : 0.C to +45.C Relative Humidity : 0 to 90%			
Cooling	Thermostatically controlled cooling fan			
Mechanical Dimension	107mm x 275mm x 330mm (H x W x L)			
Weight	5Kg			



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