

Greeny

HIGH EFFICIENCY 

Solar Hybrid Top Roof PCU's

Export Quality

Made in India

Max. Efficiency

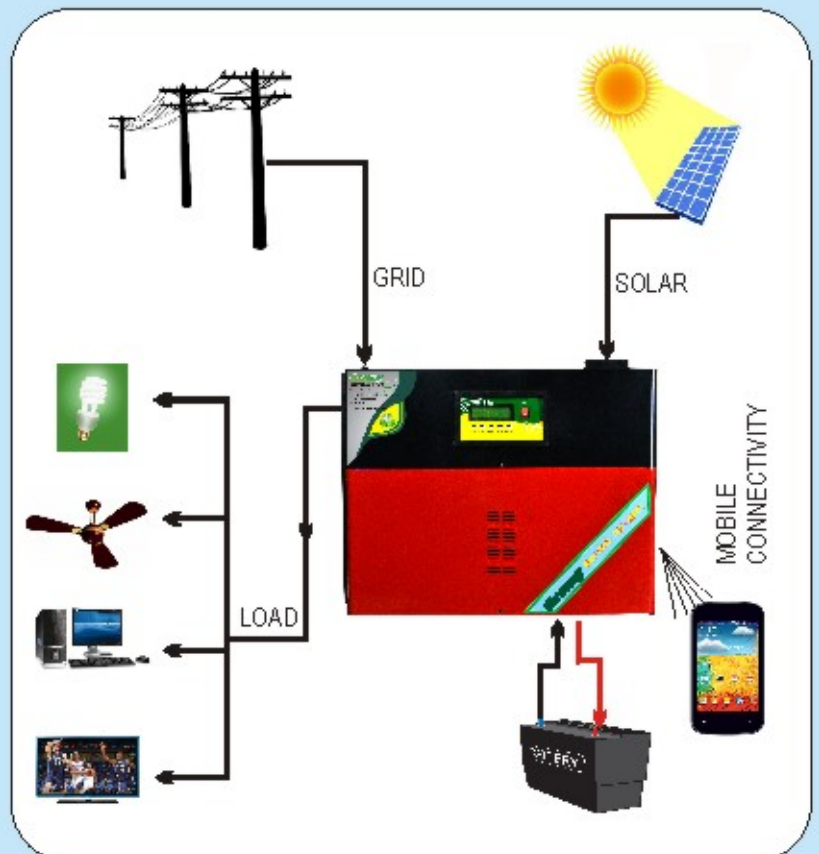
Value for Money

Best of Spec's



The "GREENY SOLAR HYBRID PCU" is a powerful & Ultimate all-in-one solution for solar off grid top roof power conversion. This has Inbuilt High Efficiency Inverter, Grid battery charger & MPPT Solar charge controller which makes the revolutionary product than the conventional one in the industry. Specially Designed for Indian power condition after years of R&D and Field testing, Inverter Efficiency plays a vital role in today's solar power conversion. This has set a new bench mark & value for money. We are very proud to launch our New Generation products & be a part of "MAKE IN INDIA" concept.

- ☞ DSP Controlled Next Generation Technology
- ☞ Pure sine wave Output
- ☞ INV Efficiency up to 90 - 93%
(30% Extra backup)
- ☞ Inbuilt MPPT solar & Grid Batt charger
- ☞ Wide range PV input with Auto VMP Tracking
- ☞ Max. Usage of Solar Power Priority Control
- ☞ User Friendly LCD & LED display for all Parameters
- ☞ Complete Isolated, Light weight design
- ☞ Attractive wall mounting Enclosure
- ☞ Field Tested and proven design
- ☞ RS232 Ex- communication (Optional)
- ☞ Mobile connectivity via Bluetooth (optional)



How does it work?

This PCU works in Dual mode which is selectable by consumers by sliding switch.

- HYBRID MODE :** Solar power priority Control is Enabled, battery charges from only solar power source, During battery charging load bypassed to the Grid, once the battery gets fully charged if still Excess solar power is available Load Also gets connected automatically to the solar and battery source, Once the battery gets 60% discharged then load automatically bypassed to Grid & Rest of the 40% of the battery saved for emergency power cuts (Grid does not charge the battery it only maintains the battery gravity level in case of Long term failure in Solar power).
- DOMESTIC MODE:** In this case, it works as Normal Home UPS/Inverter. Solar power can be used for Battery charging especially the areas like where there is a frequent and long duration power cuts. During day time with available Solar power & Grid power will simultaneously feed the battery. Thereby minimizing the electricity bill & battery charging time.

TECHNICAL SPECIFICATIONS

Model	Greeny SHU850	Greeny SHU1500	Greeny SHU3000
Inverter Output			
Rated Power	850VA	1500VA	3000VA
Surge Capacity	200%		
Power Factor	0.8		
Output Voltage (No load)	230V AC \pm 5% (50Hz \pm 1%)		
Output Waveform	Pure sine wave ,THD < 2% (With linear load)		
INV Peak Efficiency	UP to 90%	UP to 91%	UP to 93%
Display Parameters	LED : Bypass mode, Grid Battery charging, Back up mode, Low Battery, Overload, LCD : PV Voltage, PV Power, Battery Voltage, Battery Status, PV Charger Status & all Faults		
Battery			
Battery Nominal Voltage	12V DC	24VDC	48VDC
No Load Current (with charged battery)	1.1A	0.6A	0.3A
Low Battery Alarm	10.75V DC \pm 0.2%	21.50V DC \pm 0.2%	43.00V DC \pm 0.2%
Low Battery Trip	10.50V DC \pm 0.2%	21.00V DC \pm 0.2%	42.00V DC \pm 0.2%
Solar			
Maximum PV Capacity	500W	1000W	2000W
PV Open Voltage	25-50V DC	45-100V DC	60-150V DC
Charging Type	MPPT		
Charger Efficiency	Up to 98%		
Priority Control Option	Hybrid / Domestic (selectable switch)		
Grid			
Maximum Charging Current	15Amps		
Charging Cut - off (Domestic mode)	14.4V DC \pm 0.2%	29V DC \pm 0.2%	57.6V DC \pm 0.2%
Charger Type	Current & voltage controlled (with 3 steps)		
Input Voltage Range	180 – 265V AC \pm 5% (For PC'S) & 120 -285V AC \pm 5% (For Home Appliances) – (selectable switch)		
Maximum Changeover Time	<20ms (For PC'S) & <30ms (For Home Appliances) – (selectable switch)		
Environmental Parameters			
Operating Temperature Range	0 - 55°C		
Relative Humidity	0-95%		
Protection	Over Load, Short Circuit, Low Battery, Over Temp		
Dimensions (L x W x H) in mm	255X250X100	385X110X315	500X110X400
Weight	2.5kg	7.5kg	12.5kg

Note : Product specifications are subject to change without further notice.



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