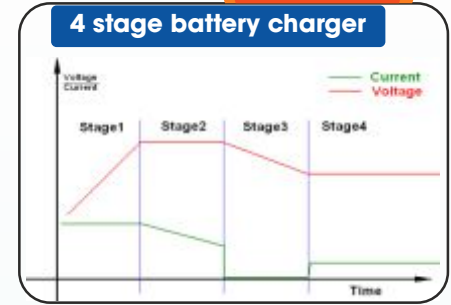


Pure Sine Wave Solar Hybrid PCU Inbuilt MPPT & Inverter With Isolation Transformer



3KW PCU can run Air conditioner*



Dhruv series solar PCU provides pure sine wave 1-phase AC power output. It has integrated MPPT solar charger for safe charging of battery on solar power and its high efficiency inverter module is capable to run loads like Light, Fan, TV, Computers, etc on batteries. The combination of MPPT charger, Mosfet based inverter with onboard DSP (digital signal processor) ensures optimum uses of solar energy and its inbuilt isolation transformer (with inverter) provides highly reliable ac output for many years. It is designed with lots of features to maximise saving of utility power bills to customers.

Salient features :

Category	Model	Dhruv 0.3k	Dhruv 0.5k	Dhruv 1k	Dhruv 2k	Dhruv 3k
Power	Rated Power Output	300 W	500 W	1 KW	2 KW	3 KW
	Power Device	MOSFET				
Input parameters	Normal Voltage	220 Vac, 50 Hz				
	Voltage Range	100V-285V(for application mode) 180V-265V(for UPS mode)				
Output parameters	Normal Voltage	220 Vac +/- 1 %				
	Peak Efficiency at rated load	>85%				
	Transfer time	<10 milli seconds (for UPS mode) <100 milli seconds (for appliance mode)				
Battery	Battery voltage	12 V	12 V	24 V	48 V	48 V
MPPT Charger	Maximum PV rated power	300 W	500 W	1000W	2000 W	2000 W
	Maximum PV array open circuit voltage	50 V	50 V	90 V	180 V	180 V
	Operating panel voltage	18~40 V	18~40 V	36~75 V	72~150 V	72~150 V
	Battery charging current	20 A		40 A		
	Peak charger efficiency	>97%				
General	Protections	Overload , Short Circuit , Over temperature , Battery deep discharge ,Battery Over Charge , Mains low and high voltage				
	Operating temperature	0-50 deg C				
	Humidity	0-90 % RH				
	Battery Charging Current from Mains	10 Amp		15 Amp		
	Priority	Solar - Battery - Grid				
Optional	Protections	Lightening , Battery Reversal.				

- ✘ Pure sine wave inverter output
- ✘ 10 to 20% of more energy is harvested by using MPPT solar charger
- ✘ Appliance & UPS Mode
- ✘ Intelligent battery charging(4 Stage) **
- ✘ Indigenous design with proven technology
- ✘ Auto wake up: Inverter will switch on automatically when the battery is charged by solar to predetermined level.**
- ✘ Fold back current limiting for short circuit and heavy loads leads to system reliability
- ✘ Menu driven system parameters like battery low, charging current, output voltage, load etc.....
- ✘ LCD display and LED indicators to indicate the instantaneous status of the inverter.***
- ✘ Automatic solar charging priority
- ✘ Incorporated soft start feature
- ✘ DSP based intelligent control
- ✘ Noiseless operation of fans, lamps and appliances
- ✘ Isolated output during inverter mode

* Standard up to 1.5 Ton A/C ** Only for 1,2 & 3k Dhruv
*** Only LCD Indicator for 0.3 & 0.5 k Dhruv

Disclaimer : Due to constant quality improvement at our R&D center, specifications/models may change without prior notice.

To know more, visit our ELWORLD showroom at B-25, Lajpat Nagar-II, Delhi
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