

LUMINOUS

SOLARVERTER PRO PCU

Superior Performance

Solarverter PRO range from Luminous allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, Solarverter PRO is available in 2kVA, 3kVA.



2 Years
Warranty



Smart Solar
optimization



User Controller
Settings



Smart Solar Optimization

Gives priority to solar in both backup and charging mode of operation thereby maximizing solar energy utilization.



Maximum Power Point Tracking

MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.



User friendly LCD Display

Makes it convenient for user to easily monitor various performance parameters.

Guaranteed Safety

Comprehensive protection features include short circuit, reverse polarity, surge protection, etc.



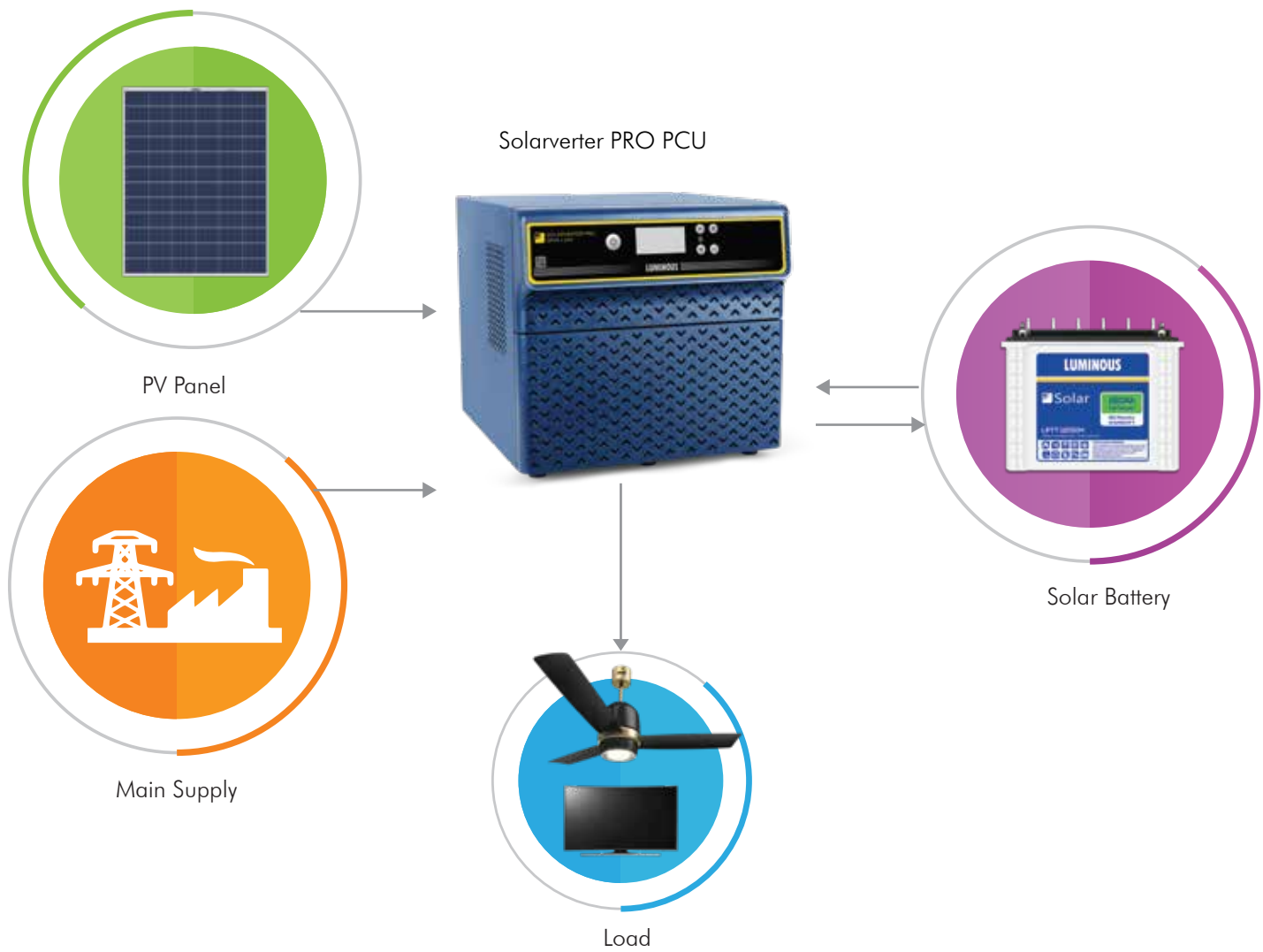
BIS Certified

BIS certified as per IS/IEC standards



Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	Solar Battery	PV Panel Watt		
SOLARVERTER PRO 2KVA	150Ah x 2	380Wp x 6 Nos.	2 (S) 3 (P)	250
SOLARVERTER PRO 3KVA	150Ah x 3	380Wp x 9 Nos.	3 (S) 3 (P)	350



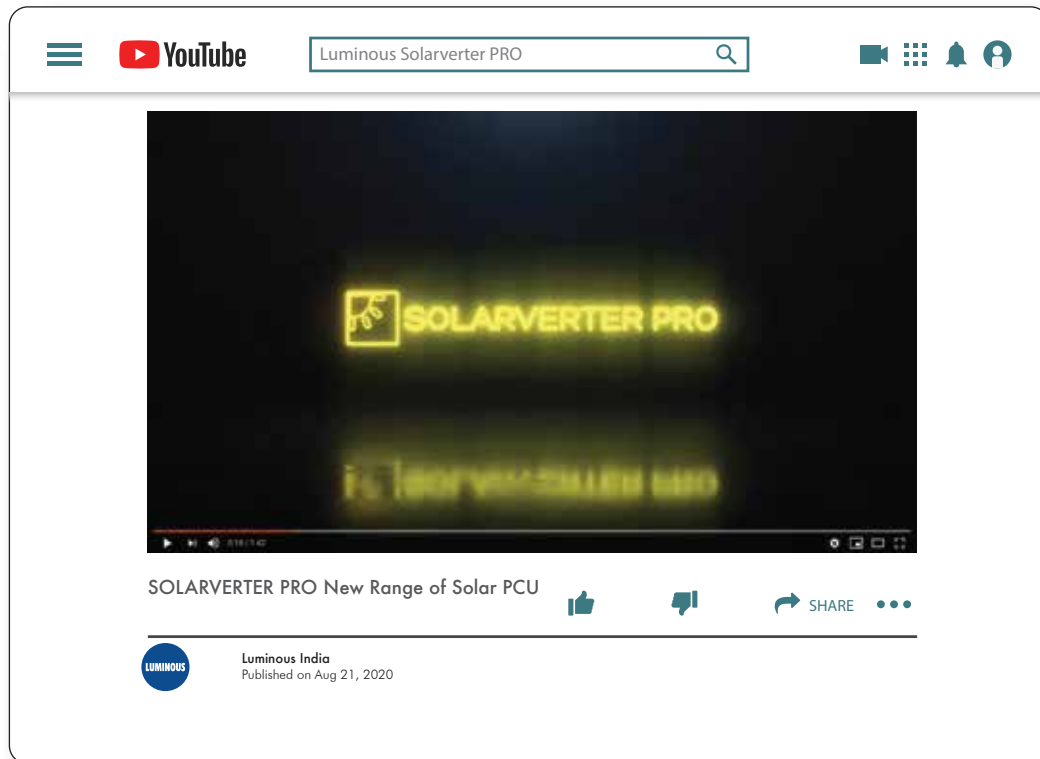
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Technical Specifications

Model Name	SOLARVERTER PRO 2KVA	SOLARVERTER PRO 3KVA
Capacity (kW)	2kW	3kW
Nominal Battery Voltage (Vdc)	24V	36V
Output Waveform	Sine Wave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	MPPT	
Maximum PV power (kW)	2500W	3500W
Solar Input Voltage (Voc)	57V-100V	75V-150V
Solar Input Voltage range (Vmp)	45V-85V	60V-120V
Max. PV Input Current (Imp)	38A	38A
Nominal Battery Charging Current (At STC)	91A±2A	
Max. Battery Charging Current (Regulation)	≤100A±10A	
No. of MPPT Channels	1	
GRID INPUT		
Input Supply Phases	Single Phase	
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac	
Mains mode (Unregulated UPS Mode)	110-280Vac	
Input Protection	32A MCB	
BATTERY		
No. of Batteries	2	3
Charging Stages	Boost, Absorption, Float	
Battery Charging Current	14A, 17A, 20A	
Type of Battery	Tubular/SMF/Flat	
UPS		
Switching Element	MOSFET	
Control	16 Bit DSP controlled	
Nominal Output Voltage (V)	230V ± 2%	
Output Supply Phase	1 Phase 3 Wire	
Nominal Frequency	50 Hz	
Nominal Output Current	7.5A	11A
Output Voltage Distortion(THD)	≤ 3%	
SYSTEM DATA		
Transfer Time	<20 mS	
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery	
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
ENVIRONMENT		
IP Protection Level	IP-21	
Operating Temperature	0-45 °C	
Storage Temperature	0-45°C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
GENERAL		
Dimension (L*W*H) [mm]	300x417x452	
Net Weight (Kg)	25kg	32.5kg

Technical specifications are subject to change without prior notice.

For more information



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