

TECHNICAL SPECIFICATION

Parameters		Solar UPS(PWM HOME PCU)			
Model	Units	2.5k/36V	2.5k/48V	3k/48V	5k/48V
Rating		2000VA	2000VA	3000VA	5000VA
Charge controller Max Amp	A	50			
Solar Voltage(Min-Max)	VOC	32-60	64-120	64-120	64-120
Max PV Power	W	1500	1800	2550	3000
Cell Support		60/72	60/72	60/72	60/72
PWM Based Charge Controller					
Switching Element	MOSFET				
Type of Charger	CVCC_PWM				
Efficiency	95%				
Battery					
Low cut off	V	10.5 +/- 2%			
Low Buzzer		10.7 +/- 2%			
High cut off		15.5 +/- 2%			
Boost Charging Volt by Grid		14.5 +/- 2%			
Charging Voltage by Solar		14.5 +/- 2%			
Charging current by Grid	A	10 +/- 2%			
Grid					
No of Phase	1Phase-3Wire P,N,E				
Voltage range	100-280(Inverter) 180-260(UPS)				
Frequency range	Hz	45-55			
Inverter					
Micro-Controller	32 Bit DSP (Microchip & ST)				
Output Voltage	V	220 +/- 2%			
Phase	1Phase-3Wire P,N,E				
Output Waveform	Digitally Filtered Pure Sine Wave				
Frequency	Hz	50			
Overload	> 150% Load - 1Sec	Upto 125% Load - 1Min			
		125% - 150% Load - 5Sec			
Switches	Load-Short circuit				
	System ON/OFF				
	Hybrid / PCU / Smart Mode Inverter / UPS Mode				
Led Indication	Inverter ON, Mains ON, Battery Low / High, Overload, SPV Charging				
Alarm	Battery Low, Overload, Charger ON, Inverter ON				
Protection	Overload, Short Circuit Protection, Over Voltage, SPC Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery, Over Temperature Protection, Under voltage and Over Voltage Protection				
LCD Display Parameters					
Input	Voltage, Current, Frequency				
Output	Voltage, Current, Frequency				
Load	Load in % Actual Running Load in Watt				
Battery	Battery Level & Battery Voltage, Charging Current by Grid/Solar, Charging Stages(Soft Start, Bulk, Absorption, Float & Equalize)				
Solar	Solar Voltage, Charging Current by Solar, Charging Stages(Soft Start, Bulk, Absorption, Float & Equalize)				
Status and Faults	Overheat, Mains High / Low, Inverter On/Off, SPV Status Low /High, Output Low, Battery Low/ High				
Other					
Cooling	Forced Air Cooling(Temp Controlled)				
Operating Temp	C	0-50			
Operating Humidify	%	95			

* Specification may change due to continuous R&D