

Hybrid Solar PCU



TECHNICAL SPECIFICATION

Parameters	Units	Rating	
Model	KVA	1100VA	2500VA
Operation DC Voltage	Volts	12	24
BATTERY			
Low Cut Off	Volts	10/Battery +/-2%	
Low Cut Off Recovery	Volts	11.5/Battery +/-2%	
Low Buzzer	Volts	10.7/Battery +/-2%	
High Cut Off	Volts	14.5/Battery +/-2%	
High Cut Off Recovery	Volts	14.0/Battery +/-2%	
Boost Charging Volt by SPV(TUB)	Volts	14.5/Battery +/-2%	
Boost Charging by Grid(TUB)	Volts	14.0/Battery +/-2%	
Charging Current by Grid	Amps	12A+/-2Amp	
No Load Battery Current	%	0.02	
OUTPUT			
Output@ No load	Volts	230+/-2%	
Output Frequency	Hz	50+/-2%	
Overload	Amps	7	8.7
	Watts	1.6KW	2KW
Output Short Circuit	-	1 Time	
GRID			
No of Phase	-	1Phase-3Wire P,N,E	
Voltage Range (Inverter Mode)	V	110-300 +/- 2%	
Voltage Range (UPS mode)		175-255 +/- 2%	
Frequency Range	Hz	45-55 +/- 2%	
DISPLAY			
Display	Alphanumeric	16X2 LCD	20X4 LCD
	Output (Inverter)	Voltage, Current, Power	
Parameters	Input (Grid)	Voltage	
	Solar	Voltage, Current, Power and Energy (optional)	
	Battery	Voltage, Current	
	Status/Faults	Inverter Status, Mains Status, Solar Status and Battery Status/Charging Stages	
INVERTER			
Switch Element	-	MOSFET	IGBT Module
Output Voltage	Volts	230 +/-2%	
Phase	-	1 Phase-2Wire P,N,E	
Output Waveform		Digitally Filtered Pure Sine Wave	
Frequency	-	50+/-2%	
Changeover (Mains to Inverter)	Hz	<10ms	
Output Power Factor	ms	0.8	
Overload Retry	-	3 Times	
Switches	-	System ON/OFF Mode Selection: Hybrid/PCU/Smart, INV/UPS Selection	
Indication (LED)	-	Inverter On, Mains in Range, Battery Low/High, Charger On, Overload, Faults	
Alarm(Audible)	-	Battery Low, Overload, Charge On, Inverter On, Solar Charge On	
Protection	-	Overload, Short Circuit Protection, Over Voltage, SPV nad Transient protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, Under Voltage and Over Voltage Protection	
Cooling	-	Forced Air cooling (Temp Controlled)	
Communication	-	Remote Monitoring System (OVER GPRS /BLE and Wifi) or RS232	
Operating Temp	c	0-50	
Operating Humidity	%	95	
Protection Class	-	Ip20	

Note. Specification are subject to change without prior notice due to constant improvement in design & technology.