



सोलर उत्पादों की सबसे बड़ी रेंज के साथ
भारत का सबसे भरोसेमंद ब्राण्ड



MPPT PCU

- Available from 1KVA/12V to 15KVA/240V Models.
- PCU Modes, Battery settings, Inverter Settings, can be done through LCD MENU setup.
- It is highly recommended for Home, Shops, Semi-Industrial loads, Hospitals, Petrol Pumps, Motors.
- Solar PCUs with copper transformer for high-efficiency output. 1KVA/12V and 2.5KVA/24V come with copper transformers.
- On request, we do accept special ratings, mainly copper-based Inverters and Lithium Solar Solutions.
- Smart Mode (PCU gives priority to solar, second priority to the grid and third priority to the batteries in smart mode). Recommended in Semi-Urban Area, where power cut is between 2-3 hour

TECHNICAL SPECIFICATION

Nexus-Solar MPPT PCU											
Technical Specification											
Parameters	Units	Rating									
Model	Nexus	1KVA	1KVA/CU	2KVA	2.5KVA(cu)	3KVA/5KVA	5KVA/7.5KVA	7.5KVA/10KVA	10KVA	15KVA	
Operating DC Voltage	Volts	12	12	24	24	48	96	120	180	240	
SPV Parameters											
SPV Open Circuit Voltage Range(Min-Max)	Volts	18-45	18-45	36-90	36-90	72-180	144-360	180-450	270-450	360-600	
Max SPV Power	KW	1	1	2	2.5	3\5	5\7.5	7.5\10	10	15	
Compatible SPV Panels		36/60/72 Cell									
MPPT Based Charge Controller											
Switching Element		IGBT Module									
Controller		DSP									
Efficiency		>95%									
Battery Charge Stages		5(Softstart,Boost,Absorbation,Float,Equalise)									
Battery											
Low Cut off	Volts	10.5/Battery+/-2%									
Low Cut off Recovery	Volts	11.5/Battery+/-2%									
Low Buzzer	Volts	10.7/Battery+/-2%									
High Cut off	Volts	15.5/Battery+/-2%									
High Cut off Recovery	Volts	15.0/Battery+/-2%									
Boost Charging Volt by SPV(TUB)	Volts	14.5/Battery+/-2%									
Boost Charging Volt by Grid(TUB)	Volts	14.0/Battery+/-2%									
Charging Current by Grid	Amps	10A+/-2%									
No Load Battery Current	%	0.02									
Output											
Output @No Load	Volts	230+/-2%									
Output Frequency	Hz	50+/-2%									
Overload	Amps	3.5	3.5	7	8.7	10.5/17.4	17.4/26.0	26.0/34.8	34.8	52.2	
	Watts	800W	800W	1.6KW	2KW	2.4KW/4KW	4KW/6KW	6KW/8KW	8KW	12KW	
Output Low Retry	-	1 Time									
Output Short Circuit	-	1 Time									
Grid											
No.of Phase	-	1Phase-3Wine P,N,E									
Voltage of Range(Inverter Mode)	V	100-280+/-2%									
Voltage Range (UPS Mode)	V	175-255+/-2%									
Frequency Range	Hz	45-55+/-2%									
Display											
Display	Alphanumeric	16x2 LCD				20x4 LCD					
Parameters	Output(Inverter)	Voltage,Current,Power and Frequency									
	Input(Grid)	Voltage and Frequency									
	Solar	Volatge,Current,Power and Energy(Optional)									
	Battery	Voltage,Current									
	Status/Faults	Inverter Status, Main Status, Charge Status, Solar Status and Battery Status/Charging Stages									
Inverter											
Switching Element	-	MOSFET				IGBT Module					
Output Voltage	Volts	230+/-2%									
Phase	-	1Phase-3Wine P,N,E									
Output Waveform	-	Digitally Filtered Pure Sine Wave									
Frequency	Hz	50+/-2%									
Changeover(Mains to inverter)	ms	<10ms									
Output Power Factor	pf	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,Charger ON, Inverter ON, Solar Charger On									
Protection	-	Overload,Short Circuit Protection,Over Volatge,SPV Surge and Transient Protection(MOV Varistors).									
	-	Reverse Polarity of Battery,Over Temperature Protection,Under Voltage and Over Volatge protection									
Cooling	-	Forced Air-Cooling(Temp Controlled)									
Communication	-	Remote Monitoring System (Over GPRS/BLE and Wi-fi)or RS232									
Operating Temp	C	0-50									
Operating Humidity	%	95									
Protection Class	-	IP20									
Dimension(LxWxH)	mm	355x330x205				510x460x305		750x500x350		750x500x350	