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**INNOVATION**



### 9 Energy Solar- Off Grid MPPT PCU

- DSP based technology design ensures high reliability & rugged performance
- T manager (Temperature Manager) a logo inside continuously monitor the temperature of all critical components & protects them from any failure
- Inbuilt Solar MPPT based smart charger upto 50Amp
- Pure Sine Wave Output (THD<3%)
- User friendly interfacing dual display LED & LCD (Both)
- Completely Noiseless operation



9ENERGY OFF GRID- PCU MPPT		Technical Specification							
Parameters	Units	Rating							
System Rating	KVA	1	2	3	5	5	6	7.5	10
Operating DC voltage	V	12V/24V	24	48	48	96	96	96	120
Photovoltaic input									
Input Open Circuit Voltage Range (Min - Max)	VDC	45-90	45-90	80-230	80-230	140-250	140-250	140-250	175-250V
Maximum PV power recommended	KW	1	2	3	5	5	6	7.5	10
No of MPPT			1						
MPPT based charge controller									
Switching element		MOSFET							
Controller		dspIC							
Type of Charger		MPPT							
Peak Efficiency	%	98							
Parameter									
Battery Low Buzzer	V	10.2/Battery							
Battery Low Cut	V	10/Battery							
Battery High Cut	V	15.5/Battery							
Battery Charging Voltage by SPV	V	14.5							
Battery Charging Current by SPV	A	25							
Battery Charging Voltage by GRID	V	14.2/Battery							
Battery Charging Current by GRID	A	10							
Grid Low Cut Voltage(IT Load Disable/Enable)	180V	120/175							
Grid High Cut Voltage(IT Load Disable/Enable)	260V	280/260							
Grid Disconnect (Solar Available)		@ 14.5/Battery for 2 minutes OR 13.5V/Battery-100% Current							
Grid Connect (PCU Mode/Smart Mode)		11.5V							
No Load Shut Down		<2%							
Grid Charger		Enable/Disable, Default - Enable							
No Load Shut Down		Enable/Disable, Default - Disable							
IT Load		Enable/Disable,Default - Disable							
Operation Mode		SMART/PCU/HYBRID,Default - SMART							
Input Source		GRID/GENSET, Default - Grid							
Inverter									
Switching element			MOSFET						
Control			PWM						
Nominal Output Voltage	VAC		230						
Output Waveform			Sine Wave						
Nominal Frequency	HZ		50						
Output Load Current	A		6	9	15	15	18	22.5	30
THD	%		3						
Overload Capacity	%		100-110 : 10 min, 110-120 : 2min, 120-150 : 30sec						
Protections			Overload, Battery Low, Battery high, Output Low, Output High, Output Short Circuit, Overheat, Solar Panel Reverse						

## 9ENERGY SOLAR SOLUTION

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