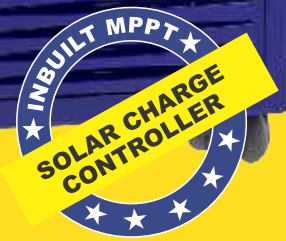




Range Available
2KVA to 5KVA



MPPT SOLAR PCU PEARL SERIES

FEATURES

- Upto 30% More Efficient because of MPPT Charge Controller.
- DSPic based Pure Sine Wave Design
- Reverse Voltage Protection.
- Extensive Electronic Protection.
- Maximum Power Preference to Solar.
- Digital LCD (16X2).
- User Friendly Setting by LCD Switches.
- Enable/Disable :- NLSD, Grid Charging, IT Load, GENSET & Operating Mode.
- Priority Mode Selection
 - 1) PCU
 - 2) Hybrid
 - 3) Smart - For Saving Energy & Money.
- Application - Hospital, School, Home, Industries, Petrol Pumps, Bank etc.



1PH in 1PH Out					
Parameters	Units	Rating			
Model No.		EPM2000	EPM3000	EPM5000	EPM5000
Capacity	VA	2000	3000	5000	5000
Operating DC voltage	V	24	48	48	96
Photovoltaic input					
Input voltage range (Min.-Max)	VDC	45-90	80-230		160-400
Maximum PV power recommended	KW	2	3	5	5
Solar Charge Controller	A	80	60	100	50
MPPT based charge controller					
Switching element		MOSFET	IGBT		
Controller		DSP			
Type of Charger		MPPT			
Peak Efficiency	%	95			
Parameter					
Battery Low Buzzer	V	Default Value			
Battery Low Cut	V	10-11.7, Default 10.5			
Battery High Cut	V	Auto, Default 16.5			
Battery Charging Voltage by SPV	V	13.5-16, Default 14.6			
Battery Charging Current by SPV	A	12-60, Default 30			
Battery Charging Voltage by GRID	V	13-15.5, Default 14.2			
Battery Charging Current by GRID	A	6-15, Default 12			
Grid Low Cut Voltage (IT Load Disable/Enable)	V	120 / 175			
Grid High Cut Voltage (IT Load Disable/Enable)	V	280 / 260			
Output Voltage Low	V	185			
Output Voltage High	V	255			
Grid Disconnect (Solar Available)		@14.5 / Battery for 2 minutes OR 13.5/Battery-100% Current			
Grid Connect (PCU Mode / Smart Mode)	V	11.5			
No Load Shut Down	%	<2			
Grid Charger	Configurable	Enable / Disable, Default-Enable			
No Load Shut Down		Enable / Disable, Default-Disable			
IT Load		Enable / Disable, Default-Enable			
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 supply phase		1 Phase, 3 Wire			
Output waveform		Pure Sinewave			
Nominal frequency	Hz	50.0			
Load Current	A	6.1	9.1	15.2	15.2
Voltage regulation (No load to full load)	%	<3			
Output voltage distortion with 100% linear load	%	<3			
Overload Capacity (IT LOAD ENABLE)	%	100-110 : 10 min 110-120 : 2 min 120-150 : 30 sec	150-250 : 2sec 250-350 : 1sec >350 : 20ms	(100-150 10min in Pearl 2kVA)	
Overload Capacity (IT LOAD DISABLE)	%	100-120 (2 time auto reset): 60sec 120-150 (2 time auto reset): 30sec 150-250 : 2sec	250-350 : 1sec >350 : 20ms	(100-150 10min in Pearl 2kVA)	
Peak Efficiency	%	85	88	88	88
Noise @ 1meter	dB	50			
Cooling		Temp Controlled, Fan			
Protections		Overload, Battery low, Battery high, Output low, Output high, Output Short Circuit, Overheat, I/P AC Under frequency, I/P AC Over frequency, Solar Panel Reverse			
Display Parameters		Battery Voltage, Charging Current, Discharging Current, Solar Voltage, Solar Current, Instantaneous Power, Grid Voltage, I/P Frequency Output Voltage, Output Load% O/P Frequency Grid, Inverter & SPV Charger Status			
Switches		Reset for System ON/OFF, up, Down, Back, Enter (for LCD Configuration)			
Indications		System ON, Inv. ON, SPV Charging, Grid Charging, Batt. Low/High, Overload, Overheat, Mains Low, Mains High, I/P AC Under frequency, I/P AC Over frequency			
Environment					
Operating Temperature	°C	0-50			
Max Relative Humidity @25°C (non condensing)	%	95			
Dimension (L x W x H)	Inch	18 X 10 X 17			
Weight	Kg.	30	39	55	55

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

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