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ENVIRO SOLAR PCU PM-MPPT SERIES



PM 1K24 | PM 2K36
PM 3K48 | PM 5K48



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Features

Performance Plus

- Extended Power backup with Solar power and additional energy saving using dual interleaved MPPT technology
- Optimum use of solar power even when electricity is available
- Site Customizable operating modes to suit most of customer requirements
- Wide input grid voltage range for low voltage areas-Grid battery charging even as low as 110V AC

Continuous Savings

- Utilizes solar to the maximum with MPPT Technology and highly efficient sine wave inverter design, ensure Grid power is utilized to the minimum.

Unmatched Features

- Pure Sine Wave Technology to enhance reliability and life of your home appliances, pulse by pulse correction of output voltage ensures clean and stable output power.
- Grid Charger Mute Option to ensure solar power is utilized to the fullest, Solar and grid charger can share the charging current
- User friendly Graphical LCD and LED Display for improved user experience, All in one LCD display for system status.
- Six user modes under solar preference to suit most of customer requirements.

Specifications

- Pure sine wave inverter
- 32-bit High Performance μ -controller
- Built in dual interleaved MPPT solar charge controller
- 4 stage intelligent charging to ensure longer battery life
- Grid charger mute option
- Solar over voltage and reverse polarity protection
- Overload, short circuit, foldback current limiting, over temperature battery low/ high protection
- Grid high & low voltage cut off to protect sensitive home equipment's.
- Grid input wide and narrow (sensitive) modes.
- Wide mode works from 100 V to 290 V AC
- Narrow mode works from 170 V - 270 V AC to protect sensitive home/office equipments
- Battery charging from Grid as low as 110 V AC
- Grid charging current- High, Low or Mute.
- Battery capacity selection from 150 Ah to 220 Ah, with auto charging current selection
- Suitable for Tubular LMLA, SMF or Gel batteries
- Solar/Grid preference- If solar is selected, grid charger will be OFF. Grid charger will start only if the battery low happens. Under both modes solar charger will work if solar power is available. once the battery is fully charged during the day the load will be shared by solar and battery, to maximize solar energy utilization and reduction in electricity bill.
- Zero current drain from Grid if the grid charging is not enabled, System runs cooler and prevents wastage of grid power.



Model No.		PM 1K24	PM 2K36	PM 3K48	PM 5K48	
Product Code		SSSSLX0689	SSSSLX0690	SSSSLX091	SSSSLX1102	
Nominal Battery Voltage (V DC)		24 V	36 V	48 V	48V	
Solar Capacity		1 kW	2 kW	3 kW	5 kW	
Inverter Capacity		1.25 kVA	2.5 kVA	3.75 kVA	5 kVA	
Maximum Load (Resistive)		1000 W	2000 W	3000 W	4000 W	
SOLAR PHOTOVOLTIC INPUT						
Suggest Solar PV Module Combination		335 Wp	1340 Wp (2S-2P)	2010 Wp (3S-2P)	3015 Wp (3S-3P)	5025 Wp (3S-5P)
		545 Wp	1070 Wp (2S)	2140 Wp (2S-2P)	3210 Wp (2S-3P)	4905 Wp (3S-3P)
Control Type		Dual interleaved PWM MPPT Tracker with MOSFET				
Maximum DC link Voltage (Voc)		100 VDC	150 VDC	150 VDC	170 VDC	
Vmp Range (Vmp)		50 V - 90 V	50 V - 120 V	70 V - 120 V	80 V - 150 V	
Solar Power Limit		1 kWp	2 kWp	3 kWp	5 kWp	
GRID INPUT						
GRID INPUT	Operating Voltage Range (Narrow Mode)	170 V AC – 270 V AC				
	Operating Voltage Range (Wide Mode)	100 V AC – 290 V AC				
	Operating Frequency Range	42 Hz – 54 Hz				
GRID OUTPUT	Grid Charger Mute	Grid Charging will not work if Mute Option is selected, however if solar is low and battery has reached low Battery State, Grid charger will charge the battery till 80 %				
	Output Voltage (On Battery Mode)	220 - 230 - 240 Settable with 230 Vac as default				
	Frequency (On Battery Mode)	50 Hz +/- 0.5 Hz				
	Transfer Time	Mains to Inverter < 15 mS & Inverter to Mains < 15 mS				
	Output Voltage (on Grid Mode)	Same as input Grid Voltage & Frequency				
	Time Delay	System will be synchronized to grid phase and frequency before transfer				
	Output Waveform	Pure Sinewave with < 5 % VTHD				
Protections	Solar Array Reverse	No Operation, system will not charge,				
	Overload	> 110 % continuous load				
	Battery Reverse Protection	YES – By Removable fuse or MCB Trip depending on Model				
	Short Circuit	System Shutdown – manual reset required by ON/OFF switch				
	High Temperature	YES, Automatic Fan ON				
BATTERY						
DC	Type of battery	Tubular LMLA / VRLA GEL				
	Nominal DC Input Voltage	24 V	36 V	48 V	48 V	
	Charging Current (Hi Setting)	17 A				
	Charging Current (Lo Setting)	7 Amps				
Environmental	Operating Temperature	-10 °C - +50 °C				
	Relative Humidity	0-95 % RH non-condensing				
	Audible Noise	< 55 dB				
Construction	Cabinet	Metal Cabinet with Power Coating				
	Weight	9.05 kg	10 kg	13.5 kg	15.52 kg	19 kg
	Construction	414 x 250x 307 mm	414 x 250 x 307 mm	429 x 280 x 391 mm	429 x 280 x 391 mm	

*Conditions Apply.

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HARNESSING LIGHT. HARVESTING ENERGY.



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