



Freedom From Power Cuts !



PV UP – E SERIES



OVERVIEW

The “PV-UP” E – Series Inverters from PPS Enviro is a “**DSP Controlled**” Intelligent, Sine Wave Inverter / Charger with Integrated Solar Charge Controller with Built-in Protection Features. “PV-UP” E – Series Inverters provide Reliable, Low Cost Solutions for backup power application unit. It is a fully integrated “Plug & Play” type with built in protection for safe and reliable operation.

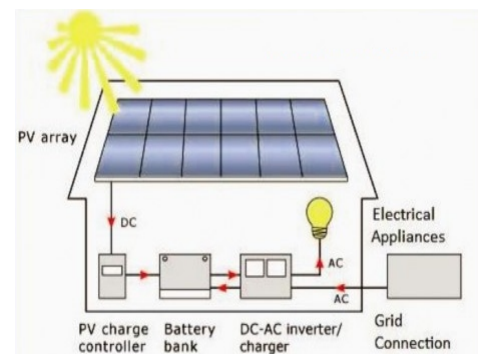
OPERATION PHILOSOPHY

The “PV-UP” E – Series is an inverter/charger, a combination that ensures battery is well maintained and an uninterrupted power is provided to the connected loads.

The unit can either configure itself as a charger or inverter when the battery reserve cannot be maintained. Under Normal Mode, the systems prioritize the use of solar power, charge the battery and power the loads.

The gap if any between the solar power generated and the load is met by the battery reserve. When the battery reserve goes below the user defined preset point then the grid is brought in to meet the load.

The “PV-UP” E – Series inverter uses an advanced, high efficiency, battery charging algorithm to maintain a healthy battery state of charge, thereby prolonging battery life.



FEB 2013 SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

TECHNICAL SPECIFICATIONS – “PV-UP” E – SERIES

Operating Parameters	Technical Information							
	Model	E – 350	E – 650	E – 850	E-1200	E – 1600	E – 2200	E – 2600
Inverter Rating	350VA	650VA	850VA	1200VA	1600VA	2200VA	2600VA	3200VA
Input DC Voltage	12Vdc			24Vdc		48Vdc		
Solar Array Rating	125Wp	250Wp	350Wp	500Wp	800Wp	1000Wp	1200Wp	1500Wp
Surge Rating	110% for 60 Seconds 150% for 30 Second							
Output Waveform	Pure Sine Wave							
Technology	DSP Based Intelligent Control – Bi-directional							
Nominal Output Voltage	220 / 230Vac, Single Phase (±1%)							
Nominal Output Frequency	50Hz ± 3Hz							
Input Grid Acceptable Voltage	160Vac – 270Vac							
Transfer Time	< 5 milli seconds							
No Load Consumption	< 2.5%							
Max Grid Charging Current	Max 15 A – Configurable through Software Set Points							
Total Harmonic Distortion	Less than 3%							
Over Load	Auto Reset							
Efficiency	> 80%			> 83%		> 85%		
Front Panel Indicators	LED's to Indicate the following: <ul style="list-style-type: none"> • Mains ON • Inverter ON • Charger ON • Battery LOW • Overload • System FAULT 							
Protections	<ul style="list-style-type: none"> • Grid Over / Under Voltage • Grid Over / Under Frequency • Inverter Overload • Short Circuit • Battery Low / High Shutdown • Solar / Battery Reverse • AC Input / Output Reverse 							
Cold Start Feature	Available							
Front Panel Display	Single Line LCD display – Auto Play							
Solar Priority	Yes – Available to Charge the Battery Bank							
Environmental								
Operating Temperature Range	-5°C to +55°C							
Humidity	0 – 95% non condensing							
Enclosure	IP 20							
Acoustic Noise	Less than 60 dB at 1 meter distance							
Dimensions (W x D x H) in mm	330 x 390 x 120			205 x 355 x 290		235 x 385 x 360		
Weight	6 Kgs	8 Kgs	10 Kgs	12 Kgs	15 Kgs	20 Kgs	25 Kgs	30 Kgs
Warranty	24 Months from the date of Shipment							

Manufactured By:
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