



“PV – UP” – M SERIES

NEW

MPPT Series



OVERVIEW

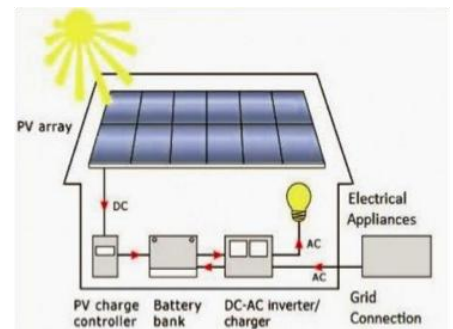
The “PV–UP” M – Series Inverters from PPS Enviro is a “DSP Based” Intelligent, Sine Wave Inverter / Charger with an **Integrated High Efficient MPPT (Maximum Power Point Tracking) based Solar Charge Controller**, Advanced Control and Protection Features. “PV–UP” M –Series Inverters provide Reliable, Efficient, and Low Cost Solution for backup power application. It is a fully integrated “Plug & Play” unit, easy to install, maintain and operate.

OPERATION PHILOSOPHY

The “PV–UP” M – Series Inverters is an inverter/charger, a combination that ensures battery is well maintained and an uninterrupted power is provided to 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” M – Series Inverter uses an advanced, high efficiency, battery charging algorithm to maintain a healthy battery state of charge, thereby prolonging battery life.



TECHNICAL SPECIFICATIONS – “PV-UP” M – SERIES

Operating Parameters	Technical Information							
Model	M 350	M 600	M 800	M 1200	M 1800	M 2200	M 2600	M 3200
Inverter Rating	350VA	600VA	800VA	1200VA	1800VA	2200VA	2600VA	3200VA
Input DC Voltage – Nominal	12Vdc			24Vdc		48Vdc		
Solar Array Rating (MPPT)	300Wp	500Wp	600Wp	1000Wp	1500Wp	2000Wp	2500Wp	3000Wp
Max PV Input Voltage	40Vdc			80Vdc		170Vdc		
Surge Rating	120% for 60 Seconds 150% for 30 Second							
Type	High Frequency MOSFET based PWM Sine Wave Ouput							
Technology	DSP Based Intelligent Control –Bi-Directional							
Nominal Output Voltage	220 / 230Vac, Single Phase (±1%)							
Nominal Output Frequency	50Hz ± 3Hz							
Input Grid Acceptable Range	190Vac – 270Vac							
Transfer Time	> 5 milli seconds							
No Load Consumption	> 2%							
Max Grid Charging Current	Max 15 A – Configurable through Software Set Points							
Total Harmonic Distortion	Less than 3%							
Over Load	Auto Reset							
Efficiency	> 85%			> 88%		> 90%		
Display	Double Line LCD Digital Display with Backlighting at the Front Panel of PCU Displaying: <ul style="list-style-type: none"> Battery Voltage & Current PV Voltage, Current, Instantaneous Power (kW), Instantaneous Energy (kWh) Inverter Output Voltage, Current and Power (kVA) Grid Voltage, Current Battery Charging and Discharging Status and Charge Level Indicator 							
Front Panel LED Indicators	<ul style="list-style-type: none"> System ON Inverter ON SPV Charging Mains Charging Battery Low 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 							
Priority	Selectable – Solar / Battery / Grid							
Communication (Optional)	RS 232 / USB / GSM / GPRS Modem / WI-FI– Optional							
Data log / Web Log Download Capability (Optional)	Available							
Operating Temperature Range	-5°C to +55°C							
Humidity	0 – 95% non-condensing							
Enclosure	IP 20							
Acoustic Noise	Less than 60dB 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		

Manufactured By:
PPS Enviro Power Pvt. Ltd,
D97/A, Road No: 18, Phase – 1,
IDA, Jeedimetla, Hyderabad – 500 055
Ph – (91) 40 2319 5123 / 24, Fax – (91) – 40 2319 5033