

# SOLAR HYBRID PCU

POWER CONDITIONING UNIT



**SMART POWER MANAGEMENT  
AND LONGER BATTERY LIFE!**



INA SUPS-1150P12



INA SUPS-2500P24

**INSOLATION ENERGY LTD.**

# TECHNICAL SPECIFICATION

PWM SOLAR PCU		INA SUPS - 1150P12
INPUT	Main Wide UPS mode voltage range	90 ~ 295 ± 10 VAC
	Main UPS mode voltage range	180 ~ 265 ± 10 VAC
OUTPUT	Voltage (Mains mode)	Same as Input
	Frequency (Mains mode)	Same as Input (41-65 Hz)*****
	Wave Form (Mains mode)	Same as Input
	Rated Voltage (Backup mode)*	230 VAC ±10%
	Rated Frequency (Backup mode)	50Hz±0.1 Hz
	Wave Form (Backup mode)	Pure Sine Wave
	SOLAR	Max Input Solar PV (V)
Max PV Watt Wp		800 Wp
Voltage (Voc)		19~25 V
Voltage (Vmp)		17-19 V
Max PV Charging Current (A)		50 A
BATTERY	Capacity	40Ah-250Ah
	Type	Tubular,Flat Plate, SMF/VRLA or Any Local Battery Compatible
	DC Voltage	12V
PROTECTIONS	Parameters	PV reverse polarity, Low battery, Reverse battery, PV high, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breakers at Input mains
SETTABLE OPTIONS	Battery Charging Current (Mains mode) (A) (ON/OFF Switch any position)	20/15(DEFAULT)/10/5/0 AMPS**
	UPS/WUPS mode selection (ON/OFF Switch any position)	WUPS(default) 90V TO 295V
	Priority selection (ON/OFF Switch any position)***	Grid(default)/Solar/User1/User2/Normal
	Battery Type selection (ON/OFF Switch ON Position only)	Tubular(default)/LA/Li-ion****
	Battery Low setting per battery) (ON/OFF SWITCH OFF position only)	11/10.8/10.5(default) V
ENVIRONMENTAL	Operating Temperature	0-45°C (32-113°F)
	Storage Temperature	0-45°C (32-113°F)
	Humidity	0-95% RH non condensing
PHYSICAL	Net weight (Kg)	8.0
	Gross weight (Kg)	8.8
	Dimensions (LXWXH) mm	295 x 288.3 x 134.5

\*Under standard operating condition of battery fully charged and availability of solar power.

\*\* Use appropriate battery grid charging current as per manufacturer recommendation while using solar recommended Battery AH is 40AH to 250AH.

\*\*\*Per battery Grid 12.4V/Solar 11.2V/User1 11.5V/User2 11.8V/Normal (like inverter only with solar charging).

\*\*\*\* Li-ion Battery can be added as per customer battery specification.

\*\*\*\*\*This equipment can be used DG Mode.

# TECHNICAL SPECIFICATION

PWM SOLAR PCU		INA SUPS - 2500P24
INPUT	Main Wide UPS mode voltage range	90 ~ 295 ± 10 VAC
	Main UPS mode voltage range	180 ~ 265 ± 10 VAC
OUTPUT	Voltage (Mains mode)	Same as Input
	Frequency (Mains mode)	Same as Input (41-65 Hz)
	Wave Form (Mains mode)	Same as Input
	Rated Voltage (Backup mode)*	230 VAC ±10%
	Rated Frequency (Backup mode)	50Hz± 0.1 Hz
	Wave Form (Backup mode)	Pure Sine Wave
SOLAR	Max Input Solar PV (V)	50V
	Max PV Watt Wp	1600 Wp*****
	Voltage (Voc)	38 ~ 50
	Voltage (Vmp)	34 ~ 39
	Max PV Charging Current (A)	50 A
BATTERY	Capacity	100Ah-250Ah
	Type	Tubular,Flat Plate, SMF/VRLA or Any Local Battery Compatible
	DC Voltage	24 V
PROTECTIONS	Parameters	PV reverse polarity, Low battery, Reverse battery, PV high, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breakers at Input mains
SETTABLE OPTIONS	Battery Charging Current (Mains mode) (A) (ON/ OFF Switch any position)	20/15(DEFAULT)/10/5/0 AMPS**
	UPS/WUPS mode selection (ON/ OFF Switch any position)	WUPS(default) 90V TO 295V
	Priority selection (ON/ OFF Switch any position)***	Grid(default)/SOLAR/User1/User2/Normal
	Battery Type selection (ON/ OFF Switch any position Only)	Tubular(default)/LA/Li-ion****
	Battery Low setting per battery (ON/ OFF Switch any position Only)	11/10.8/10.5(default)V
ENVIRONMENTAL	Operating Temperature	0-45°C (32-113°F)
	Storage Temperature	0-45°C (32-113°F)
	Humidity	0-95% RH non condensing
PHYSICAL	Net weight (Kg)	17.85
	Gross weight (Kg)	19.3
	Dimensions (LXWxH) mm	315x295x280

\*Under standard operating condition of battery fully charged and availability of solar power.

\*\*Use appropriate battery grid charging current as per manufacturer recommendation while using solar recommended Battery AH is 100AH to 250AH.

\*\*\*Per battery Grid 12.4V/Solar 11.2V/User 1 11.5V/User2 11.8V/Normal (like inverter only with solar charging).

\*\*\*\*Li-ion Battery can be added as per customer battery specifications.

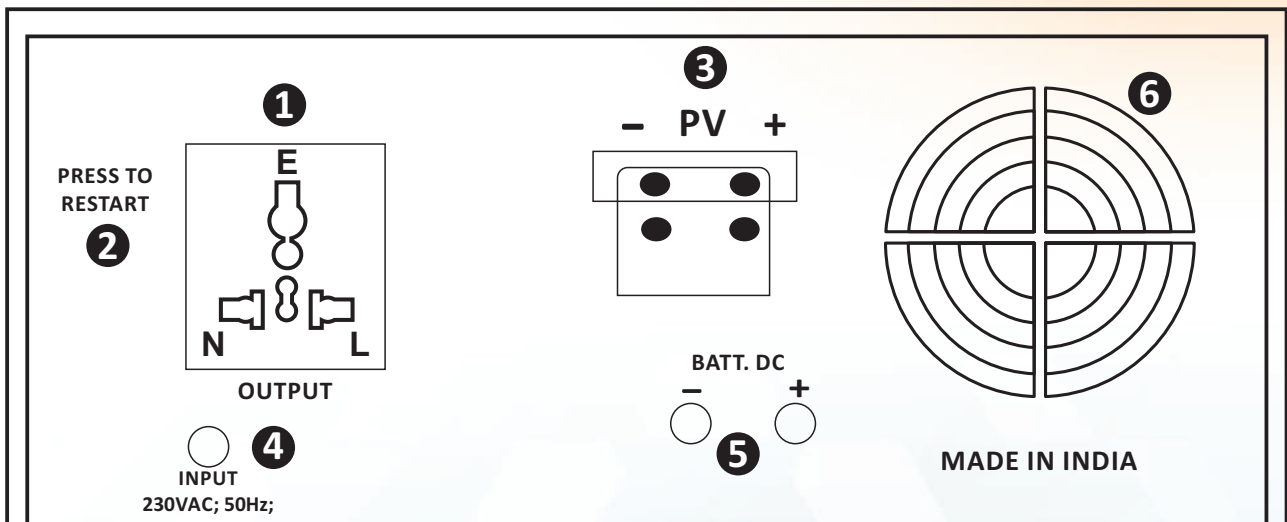
\*\*\*\*\*This equipment can be used 1HP summercible pump.

## SALIENT FEATURES:

- Pure Sine Wave Output Ensuring Noiseless Operation
- Built-in Heavy Duty Solar Charge Controller
- Smart Battery Management System For Longer Battery Life
- Grid Charging Enable / Disable Option
- LCD Display With Front Switch Settable Option of Grid Charging Current, Mains High Cut / Low Cut - Mains Voltage Range, Solar Priority, Battery Type and Battery Low Settings.
- High Surge Handling Capability for Mixed Load.
- Protection Against Overload, Short Circuit, Backfeed, Battery Deep Discharge.



## REAR PANEL 1150P12, 2500P24



1. AC Output Universal Socket
2. Resettable Circuit Breaker
3. PV Terminal Block (Negative & Positive) For 12V PCU Use Solar Panel Voc < 25V and for 24V PCU Use Solar Panel Voc < 50V
4. Mains Input wires (3 Core)
5. Battery Wires (Red & Black) use 12V Battery for 12V PCU and 24V Battery in 24V PCU
6. Fan

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