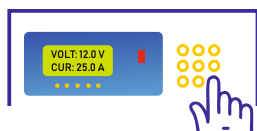


SOLWAVE

MPPT SERIES PCU



CORE FEATURES



**CONFIGURABLE
USER SETTINGS**



**PURE
SINE WAVE**



TRUE MPPT



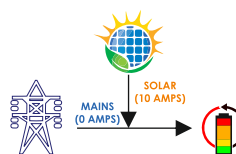
**REMOTE
MONITORING IoT**



**INTELLIGENT
MODES**



**ADVANCED
DSP TECHNOLOGY**



**AI CHARGE
SHARING**

- Big Data Big Display
- Built-in Energy Meter
- Maximized Solar Usage through Intelligent modes.
- 40% less panel required than other PCUs
- RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections

- IGBT based design and Fast Charging
- Wide range MPPT Input
- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid



SOLWAVE - SOLAR MPPT PCU											
Technical Specifications											
Parameters		Units	RATING								
Model		Influx	S0-PCUOGM-1512/S11	S0-PCUOGM-2224/S11	S0-PCUOGM-2724/S11	S0-PCUOGM-3548/S11	S0-PCUOGM-5748/S11	S0-PCUOGM-5796/S11	S0-PCUOGM-8596/S11	S0-PCUOGM-10120/S11	S0-PCUOGM-15180/S11
Capacity		VA	1000va	2000VA	2500VA	3000VA	5000VA	5000VA	7500va	10000va	15000VA
Operating DC Voltage		Volts	12V	24V	24V	48V	48V	96V	96V	120V	180V
Operating Mode		Smart/PCU/Hybrid	Yes								
Grid / DG Charging Mode		Enable/Disable	Enable								
SPV Parameters											
SPV Open Circuit Voltage Range (Min-Max)		VOC	18-45v	36-90v	36-90v	72-200v	72-200v	144-360v	144-360v	180-450v	270-450v
Maximum PV Power Recommended		Watts	1000w	2000w	2500w	3000w	5000w	5000w	7500w	10000w	15000w
SPV Charging Voltage (Boost)		TUBULAR	14.5V ± 0.2V/ Batt.								
SPV Charging Voltage (Reconnect)			14V ± 0.2V/ Batt.								
SPV Charging Voltage (Boost)		SMF	14V ± 0.2V/ Batt.								
SPV Charging Voltage (Reconnect)			13.5V ± 0.2V/ Batt.								
Solar Current MAX.		Amps	60amp	60amp	70amp	40amp	70amp	40amp	50amp	60amp	60amp
Grid											
Nominal Grid Voltage		Volts	230V 1Φ								
Nominal Grid Frequency		HZ.	50HZ.								
Frequency Range		HZ.	47-53Hz ± 1Hz								
Default Mode		TUB/SMF	Tubular								
Grid Charging Voltage		TUB	Boost	14V ± 0.2V/ Batt.							
Grid Charging Voltage			Float	13.8V ± 0.2V/ Batt.							
Grid Charging Voltage		SMF	Boost	13.8V ± 0.2V/ Batt.							
Grid Charging Voltage			Float	13.5V ± 0.2V/ Batt.							
Battery Charging Method 4 Stages		-	Bulk/Absorption/Float/Equalize								
Grid Charging Voltage (Equalize)		-	After 30 Days								
Grid Charging Current		Normal/Boost	12A/15A ± 2A								
Optional Grid Charging		Enable/Disable	Yes								
Grid Reconnect @ Battery Voltage		Volts	11.8V ± 0.2V/ Batt.								
Grid Low Cut Voltage		IT Mode Enable	180v ± 10V								
Grid Low Cut Recovery			190V ± 10V								
Grid High Cut Voltage			260V ± 10V								
Grid High Recovery			250V ± 10V								
Grid Low Cut Voltage		IT Mode Disable	100V ± 10V								
Grid Low Cut Recovery			120V ± 10V								
Grid High Cut Voltage			290V ± 10V								
Grid High Recovery			280V ± 10V								
Changeover (Batt. to Mains)		IT Mode Enable/Disable	<5ms								
Changeover (Mains to Batt.)		IT Mode Enable	<12ms								
		IT Mode Disable	<30ms								
Charge Controller											
Switching Element		-	MOSFET				IGBT				
Charger Topology		-	MPPT								
Controller		-	DSP								
Efficiency		-	95%								
Battery Charging Stages			5 (Softstart, Boost, Absorbtion, Float, Equalise)								
Battery											
Battery Capacity		AH	220AH								
Low Cut Off		Volts	10.5/Batt +/-2%								
Low Cut Off Recovery		Volts	11.5/Batt +/-2%								
Low Buzzer		Volts	10.7/Batt +/-2%								
High Cut off		Volts	15.5/Batt +/-2%								
High Cut off Recovery		Volts	15.0/Batt +/-2%								
Boost Charging Volt by SPV (TUB)		Volts	14.5/Batt +/-2%								
Boost Charging Volt by Grid (TUB)		Volts	14.0/Batt +/-2%								
Charging Current by Grid		Amps	10A+/-2%								
Inverter											
Switching Element		-	Mosfet				IGBT				
Nominal Input Voltage		V	230v AC								
Nominal Output Voltage		V	230 +/-5%								
Max. Output Current		A	3.5A	6.9A	8.7A	10.43A	17.3A	17.3A	26A	34.7A	52.1A
Phase		-	1 Phase-3Wire P,N,E								
Output Waveform		-	Digitally Filtered Pure Sine Wave								
Frequency		Hz	50								
Typical Efficiency		-	≥80%				≥85%				
Changeover (Mains to Inverter)		MS	<10ms								
Overload Retry		-	3 Times								
Switches		-	System ON/OFF, Mode Selection:				System ON/OFF,Key Pad for parameters setting & mode selection				
Indication		-	Inverter On, Main in Range, Battery Low/High, Charger On, Overload, Faults								
Alarm		-	Battery Low, Overload, Charger On, Inverter On, Solar Charger On								
Protection		-	Overload, Short Circuit Protection, Over Voltage, SPV Surge and Transient protection (MOV varistors), Reverse Polarity of battery, Over Temperature Protection, Under Voltage and Over Voltage Protection								
Overload Capacity		IT Mode Disable	>100% After 20 sec delay (with Alarm) 5Time Auto Reset, 6th Time Shut Down.Note : 1HP Motor Load Run for 15min with alarm (1 sec ON 5sec OFF) in 2500 & 3000 Model								
		IT Mode Enable	>100% After 20 sec delay 1st Time Shut Down								
Protection Class		-	IP20								
Display											
Display		Alphanumeric	16x2 LCD				20X4 LCD				
Parameter		Inverter	Voltage Current power and Frequency								
		Inout (Grid)	Voltage,Frequency								
		Solar	Voltage, Current & Wattage, KWH								
		Battery	Voltage, Current								
		Status/Faults	Inverter Status, Main Status, Charger Status, Solar Status, Battery Status/Charging Stages								
Parameters (Environment)											
Operating Temperature		-	IP20								
Cooling		-	Forced Air Cooling (temp Controlled)								
Max. Relative Humidity @25°C (non-condensing)		-	95%								
Noise @ 1mtr.		-	50dB								

*Due to continuous improvement technical specifications & product image can change without prior notice.