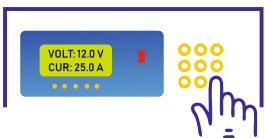


SOLWAVE

MPPT SERIES PCU



CORE FEATURES



CONFIGURABLE
USER SETTINGS



PURE SINE WAVE



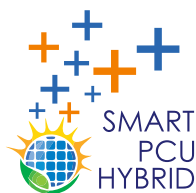
TRUE MPPT



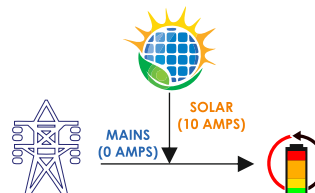
REMOTE
MONITORING IoT



ADVANCED
DSP TECHNOLOGY



INTELLIGENT
MODES



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	SOLWAVE	1KVA	2KVA	2.5KVA (CU)	3KVA/5KVA	5KVA/7.5KVA	10KVA	10KVA	15KVA		
Operating DC Voltage	Volts	12	24	24	48	96	120	180	240		
SPV Parameters											
SPV Open Circuit Voltage Range (Min-Max)	Volts	18-45	36-90	36-90	72-180	144-360	180-450	270-450	360-600		
Max SPV Power	KW	1	2	2.5	3/5	5/7.5	10	10	15		
Compatible SPV Panels	36 / 60 / 72 Cell										
MPPT Based Charge Controller											
Switching Element	IGBT Module										
Controller	DSP										
Efficiency	> 95%										
Battery Charging Stages	5 (Softstart, Boost, Absorbtion, Float, Equalise)										
Battery											
Low Cut Off	Volts	10.5 / Battery +/-2%									
Low Cut Off Recovery	Volts	11.5 / Battery +/-2%									
Low Buzzer	Volts	10.7 / Battery +/-2%									
High Cut Off	Volts	15.5 / Battery +/-2%									
High Cut Off Recovery	Volts	15.0 / Battery +/-2%									
Boost Charging Volt by SPV(TUB)	Volts	14.5 / Battery +/-2%									
Boost Charging Volt by Grid(TUB)	Volts	14.0 / Battery +/-2%									
Charging Current by Grid	Amps	10A +/-2%									
No Load Battery Current	%	0.02									
Output											
Output@ No load	Volts	230 +/-2%									
Output Frequency	Hz	50 +/-2%									
Overload	Amps	3.5	3.5	3.5	7	8.7	10.5/17.4	17.4 / 26.0	26.0 / 34.8	34.8	52.2
	Watts	800W	800W	800W	1.6KW	2KW	2.4KW / 4KW	4KW / 6KW	6KW / 8KW	8KW	12KW
Output Low Retry	-	1 Time									
Output Short Circuit	-	1 Time									
Grid											
No of Phase	-	1Phase-3Wire P,N,E									
Voltage Range(Inverter Mode)	V	100-280 +/-2%									
Voltage Range(UPS Mode)	V	175-255 +/-2%									
Frequency Range	Hz	45 - 55 +/-2%									
Display											
Display	Alphanumeric	16X2 LCD			20X4 LCD						
Parameters	Output (Inverter)	Voltage, Current, Power and Frequency									
	Input (Grid)	Voltage and Frequency									
	Solar	Voltage, Current, Power and Energy (Optional)									
	Battery	Voltage, Current									
	Status/Faults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages									
Inverter											
Switching Element	-	MOSFET					IGBT Module				
Output voltage	Volts	230 +/-2%									
Phase	-	1Phase-3Wire P,N,E									
Output Waveform	-	Digitally Filtered Pure Sine Wave									
Frequency	Hz	50 +/- 2%									
Changeover (Mains to Inverter)	ms	<10ms									
Output Power Factor	Pf	0.8									
Overload Retry	-	3 Times									
Switches	-	System ON/OFF, Mode Selection: Hybrid / PCU / Smart, INV /UPS Selection									
Indication (LED)	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults									
Alarm (Audible)	-	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									
Cooling	-	Forced Air cooling(Temp Controlled)									
Communication	-	Remote Monitoring System (Over GPRS / BLE and Wifi) or RS232									
Operating Temp	C	0-50									
Operating Humidity	%	95									
Protection class	-	IP20									
Dimension(LXWXH)	mm	355x330x205			510x460x305			750x500x350		750x500x350	
Weight	kg	18		21	31.5		40	52	63	71	85

Product specifications are subject to change without further notice.