

Technical Data Sheet

SMU (Power Conditioning Unit)



The **SMU** (Solar Management Unit) converts any conventional Inverter into to a Solar Inverter.

All you need is to connect SMU battery terminals to the battery bank, then connect solar input to PV terminals of the SMU. Finally plug in the mains power of inverter to SMU and the mains power of SMU to mains.

A simple solution to lower your electricity bill, have a dependable backup system and contribute proudly to the clean environment.

Technical Specifications

SMU (Solar Management Unit)						
Features	300V12	500V12	500V24	1KV24	1KV36	1KV48
Nominal Battery Voltage (V)	12	12	24	24	36	48
Max. Solar Panel Power (W)	300	500	500	1000	1000	1000
Communication (RS485 port)	X	X	X	X	√	√
Mains Input	As per inverter					
AC Output	As per inverter					
LCD Display (Optional)	PV Voltage, Battery Voltage, Battery Charging Current					
Priority	1. Solar					
	2. Battery					
	3. Grid					
Charge Controller Parameters						
Voc (V)	50	50	50	50	100	100
Operating Voltage (V)	26-35	26-35	26-35	26-35	52-70	52-70
Max PV Current (A)	10	20	20	36	20	20
Max Charging Current (A)	20	40	20	40	25	20
Boost Charging Voltage (V)	14.7	14.7	29.4	29.4	44.1	59
Float Charge Voltage (V)	13.9	13.9	27.2	27.2	41.7	54.4
SMU Change Over Parameters						
Battery Low Grid on Voltage (V)	11.9	11.9	23.8	23.8	35.7	47
Battery High Grid off Voltage (V)	14.4	14.4	28.4	28.4	43.2	57.8
Max Input Grid Current (A)	20					
Operational Parameters						
Operating Temperature	Upto +55°C					
Acoustic noise @1 meter	<55dB					
Relative Humidity	0-90% Non-Condensing					
Dimensions (mm)	245 X 450 X 356					
Weight (kgs)	3.5					
Mounting	Table Top/Rack Mount					
Enclosure	Metal					

Product Highlights

- ★ Solar Prioritization.
- ★ Maximization of Solar Energy Harvest
- ★ Higher Power Conversion Efficiency.
- ★ Intelligent Battery Monitoring.
- ★ Intelligent Energy Source Management
- ★ Integrated High Efficiency MCPT Solar Charge Controller built-in.
- ★ Optional Remote Monitoring.
- ★ Dependable Backup System.

Protections

- ★ Panel Reversal.
- ★ Over Voltage.
- ★ Battery reversal.
- ★ Short Circuit.
- ★ Battery Voltage Low.
- ★ Open Fuse.
- ★ Reverse Phase.

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