

## TECHNICAL SPECIFICATION

### MODEL: 12V/20amp. DC MPPT SOLAR PCU

Battery Volt	12V
Battery Type	Lead Acid/TUB.
Technology	Digital Processor Based High Efficiency Design
Max. Battery charging Current	20 Amp.
Charge controller Rating	20 Amp.
Max. Solar VOC	50V
Min. Solar VOC	20V
PV High Cut	>50V
PV High Cut Recovery	45V
Max. Panel Install	260W
Low Battery Cut	10.6V
Battery Boost Voltage LA Mode	14.0V
Battery Boost Voltage Tub Mode	14.5V
Battery Float Voltage	13.7V
Battery High cut	15V
DC load Rating	15 Amp.
Mobile Charging	500 mAAMP.
DC load ON/OFF	BY Power Switch
MPPT To PV Power Connection Time	15 Sec.
Peak Efficiency	>94%
SCC Type	MPPT

### PROTECTIONS

Battery Low	Yes Provided, It Will show on display
High PV voltage	Yes Provided, It Will show on display
Reverse PV Protection	Yes Provided, it will also show on display
Reverse Current Flow to PV	Yes Provided
Reverse Battery Protection	Yes provided, System is not ON in Reverse Battery
load short circuit protections	Yes, provided, it will show on display
Load overload Protection	If DC load connect more then 15 Amp. System show on display, after 3 retries load will be shutdown

### DISPLAY PARAMETERS

Display Type	LCD Display
Display Parameters	Reverse PV/High PV voltage /High Temp./DC Load overload, DC load short circuit, Battery voltage, Battery Current, PV voltage, PV current, Low Battery, DC load Voltage, DC load Current, Solar power available/Not Available

### SAFETY

HV Test Input to Earth	Leakage current <5MAmp. when 1.5KV Applied for 1 Min.
HV Test Output to Earth	
IR Test Input to Earth	<5MΩ between @500V DC
IR Test Output to Earth	

### ENVIRONMENT

Operating Temperature	0°C To 40°C
Storage Temperature	0°C To 50°C
Operating Relative Humidity	90% Non-Condensing