

TECHNICAL SPECIFICATION

MODEL - SUPERB 5500VA MPPT SOLAR PCU

175VAC ± 10VAC

185VAC ± 10VAC

265VAC ± 10VAC

255VAC ± 10VAC

90VAC ± 10VAC

110VAC ± 10VAC

295VAC ± 10VAC

285VAC ± 10VAC

48Hz to 52Hz

Same as input

Yes Provided, you can set by front switch

Same as input

LA / Tubular / SMF

48V

54.8V±0.2V

56V±0.4V

57.8V±0.4V

60V±0.2V

Yes (Independent Charger to Recover Deep Discharge Battery)

220VAC±10%

50Hz ± 0.2 Hz

Pure Sine Wave ≤ 5% THD

<1.8A

5500VA

90A ± 3A

43.2V±0.4V

41.6V±0.4V

< 10msec

< 25msec

MOSFET

Temp. Controlled Fan

Yes provided, system will indicate on display at 101% load

System will shutdown after 3 - retries in case of output short circuit

Mains MCB will trip

System will shutdown in case of back feed and there is no retry Yes provided, if heat sink temperature goes above 100℃ System will shut down

DC fuse will blown

Yes provided by electronic

MPPT(PCB-SC-020-01) Approx 4000 WATT

150V

70 Amp.

> 93%

Yes provided, it will also display on LCD panel Menu(Select), up, Down, Esc.

Yes provided

If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV

and grid. 1. Solar >> Grid >> Battery

2. Solar >> Battery >> Grid

Mains will be connect when battery voltage reach at defined value of the battery voltage. 20%- if battery voltage is 50.0v±0.2V 30%- if battery voltage is 48.0v±0.2V

40%- if battery voltage is 46.0v±0.2V 50%- if battery voltage is 44.0v±0.2V

Welcome, SMARTEN Website Address, System Capacity, Charging Till 90VAC and Deep Discharge Battery,

 $System\ Setting,\ UPS\ /\ WUPS\ mode,\ I/P\ range\ 90-295VAC\ /\ 170-265VAC,\ Battery\ Type\ Selected\ LA\ /\ SMF\ /\ NPS\ /$ Tubular, DOD. Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Battery

Current, PV Current, PV Voltage Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut

Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed

Leakage current <5mA when 1.5kV applied for 1 min

Leakage current <5mA when 1.5kV applied for 1 min

>5MΩ between @ 500VDC

>5MΩ between @ 500VDC

< 2.5mA

< 2.5mA

0°C to 50°C

0°C to 50°C

90% Non-Condensing

530x360x585

SPD-SB-552-048-01

PRODUCT FG CODE

MAINS INPUT MODE Mains AC low cut UPS mode

Mains AC low cut recovery UPS mode

Mains AC high cut recovery UPS mode

Mains AC low cut recovery W.UPS mode

Mains AC high cut recovery W.UPS mode

Mains AC high cut UPS mode

Mains AC low cut WUPS mode

Mains AC high cut WUPS mode

Voltage Output in Mains Mode

Mains Charging Enable/Disable

Frequency Output in Mains Mode

Battery Quantity 12V 100Ah to 220Ah

Boost charging voltage for LA Battery

Bulk Absorption Battery Voltage

Battery deep Discharge Recovery

Discharging current @ full load

Change over time UPS mode

Change over time WUPS mode

Short Circuit in Backup Mode

Short Circuit in Mains Mode

Phase to Phase protection in mains mode SOLAR CHARGE CONTROLLER Solar Charge Controller type

Max Panel wattage can be connected

Sharing of current when PV and Grid Both are

Charging Current By Grid **BACKUP MODE** Output voltage

Output frequency

Output waveform

Low Battery Warning

No Load current

Low Battery Cut

Switching Element

PROTECTIONS Overload in backup mode

Capacity

Cooling

Back feed

Efficiency

available

Mode Option

Over temperature

Maximum PV Voltage

Reverse PV protection

Maximum Battery current

Reverse current flow to PV

DOD (Depth of Discharge)

DISPLAY AND ALARMS

LCD Initial Display

LCD Status Display

HV Test Input to Earth

IR Test Input to Earth

ENVIRONMENT Operating Temperature

DIMENSIONS

Dimensions in mm

IR Test Output to Earth

Storage Temperature

Operating Relative Humidity

HV Test Output to Earth

DOD definition(Depth of Discharge)

LCD Fault / Protection Status Display

Earth Leakage current in Mains mode

Earth Leakage current in Backup mode

Reverse Battery

Boost charging voltage for Tubular and SMF Battery

Input Frequency Range

BATTERY Battery Type

DC input voltage

Float charging voltage