

## **TECHNICAL SPECIFICATION**

**MODEL - SUPERB 2675VA/24V MPPT SOLAR PCU** 

SPD-SB-262-024-01

Mains AC low cut UPS mode

175VAC ± 10VAC 185VAC ± 10VAC

Mains AC low cut recovery UPS mode Mains AC high cut UPS mode

Mains AC high cut recovery UPS mode

265VAC ± 10VAC

255VAC ± 10VAC

Mains AC low cut WUPS mode

PRODUCT FG CODE

MAINS INPUT MODE

Input Frequency Range

**BATTERY** Battery Type

DC input voltage

Float charging voltage

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** 

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 available

Charging Current By Grid

BACKUP MODE

Output waveform No Load current

Low Battery Warning

Low Battery Cut

Switching Element

Over temperature

Reverse Battery

PV Voltage Range

Efficiency

Switches

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 Weight (Kg)

Storage Temperature Operating Relative Humidity

IR Test Output to Earth

HV Test Output to Earth

Buzzer

SAFETY

DOD definition(Septh of Discharge)

LCD Fault / Protection Status Display

Earth Leakage current in Mains mode

Earth Leakage current in Backup mode

Reverse PV protection

Output voltage Output frequency

Capacity

Cooling **PROTECTIONS** Overload in backup mode

Back feed

Battery deep Discharge Recovery

Boost charging voltage for Tubular and SMF Battery

Mains AC low cut recovery W.UPS mode

Mains AC high cut WUPS mode

Mains AC high cut recovery W.UPS mode

27.4V±0.2V 28V±0.3V 28.8V±0.3V 29.6±0.2V 15A±3A

Yes (Independent Charger to Recover Deep Discharge Battery) 220VAC±10%

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

24V

50Hz ± 0.2 Hz Pure Sine Wave ≤ 5% THD

<1.8A

2500VA

70A ± 2A

21.6V+0.2V

20.8V+0.2V

< 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°C System will shut down

DC fuse will blown

Yes provided by electronic

MPPT

1500WATT

100±2V

50Amp > 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.

Mains will be connect when battery voltage reach at defined value of the battery voltage. 20%- if battery voltage is 25.0v±0.2V 30%- if battery voltage is 24.0v±0.2V

40%- if battery voltage is 23.0v±0.2V 50%- if battery voltage is 22.0v±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 / 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

90% Non-Condensing

425X315X335