

## **TECHNICAL SPECIFICATION**

90VAC ± 10VAC

110VAC ± 10VAC

295VAC ± 10VAC

285VAC ± 10VAC

40Hz to 60Hz

Same as input

Same as input

LA / Tubular / SMF

120V

10

137V±0.4V

148V±0.4V

139.5V±0.4V

144.5V±0.4V

Yes (Independent Charger to Recover Deep Discharge Battery)

13A ± 3A

220VAC±10%

50Hz ± 0.2 Hz

Pure Sine Wave ≤ 5% THD

<1.8A

10KVA

66A ± 2A

108+0 4V

106V±0.4V

< 4msec

< 25msec

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 Battery MCB will trip

Yes provided by electronic

PWM type

8000W

50A 260V ±3V

Yes provided

Yes provided

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

Yes, provided, user can set priority for Battery or Grid. Hence user can set system in electricity bill saving.

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,

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, Audible beep for Overload, Short Circuit, Back feed, Low Battery, Over Temperature, Mains Fuse blown / MCB Trip

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

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

 $>5M'\Omega$  between @ 500VDC

 $>5M'\Omega$  between @ 500VDC

< 2.5mA

< 2.5mA

550x410x650

**MODEL: SHINE 10KVA SOLAR PCU** RD/PCU/10K/120V/R.01 DOC REE NO.

PRODUCT FG CODE

SPD-SH-103-120-01

MAINS INPUT MODE

175VAC ± 10VAC

Mains AC low cut UPS mode

185VAC ± 10VAC

Mains AC high cut UPS mode

Mains AC high cut recovery UPS mode 255VAC ± 10VAC

265VAC ± 10VAC

Mains AC low cut recovery UPS mode

Mains AC low cut WUPS mode

Mains AC high cut WUPS mode

Voltage Output in Mains Mode

Frequency Output in Mains Mode

Battery Quantity 12V 100Ah to 220Ah

Boost charging voltage for LA Battery

Battery deep Discharge Recovery

Discharging current @ full load

Change over time UPS mode

Short Circuit in Backup Mode

Short Circuit in Mains Mode

SOLAR CHARGE CONTROLLER Solar Charge Controller type

Phase to Phase protection in mains mode

Sharing of current when PV and Grid Both are available

Max Panel wattage can be connected

Option for Grid and Battery priority

Change over time WUPS mode

Boost charging voltage for Tubular and SMF Battery

Charging Current at Grid priority/Battery priority

Input Frequency Range

**RATTERY** Battery Type

DC input voltage

BACKUP MODE Output voltage

Output frequency

Output waveform

No Load current

Low Battery Cut

PROTECTIONS Overload in backup mode

Back feed

Over temperature

Reverse Battery

Max PV current

Max. PV Voltage(VOC) Reverse PV protection

**DISPLAY AND ALARMS** 

LCD Initial Display

LCD Status Display

HV Test Input to Earth

IR Test Input to Earth

Dimensions in mm

IR Test Output to Earth

WEIGHT AND DIMENSIONS

Earth Leakage current in Mains mode

Earth Leakage current in Backup mode

**HV Test Output to Earth** 

Buzzer SAFFTY

Reverse current flow to PV

Low Battery Warning

Capacity

Float charging voltage

**Bulk absorption Voltage** 

Mains AC low cut recovery W.UPS mode

Mains AC high cut recovery W.UPS mode