SMARTEN[®]

TECHNICAL SPECIFICATION MODEL - SUPERB 1100VA/12V SOLAR PCU REV.02

PRODUCT FG CODE	SPD-SB-112-012-02
MAINS INPUT MODE	
Mains AC low cut UPS mode Mains AC low cut recovery UPS mode	175VAC ± 10VAC 185VAC ± 10VAC
Mains AC low cut recovery or sindle Mains AC high cut UPS mode	265VAC ± 10VAC
Mains AC high cut recovery UPS mode	255VAC ± 10VAC
Mains AC low cut WUPS mode	90VAC ± 10VAC
Mains AC low cut recovery W.UPS mode	110VAC ± 10VAC
Mains AC high cut WUPS mode Mains AC high cut recovery W.UPS mode	295VAC ± 10VAC
Input Frequency Range	285VAC ± 10VAC 48Hz to 52Hz
Voltage Output in Mains Mode	Same as input
Mains Charging Enable/Disable	Yes Provided, you can set by front switch
Frequency Output in Mains Mode	Same as input
BATTERY Battery Type	LA / Tubular / SMF
DC input voltage	12V
Battery Quantity 12V 100Ah to 220Ah	1
Float charging voltage	13.7V±0.2V
Boost charging voltage for LA Battery	14V±0.2V
Boost charging voltage for Tubular and SMF Battery Bulk Absorption Battery Voltage	14.5V±0.2V 14.8V±0.2V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)
Charging Current By Grid	15A±3A
BACKUP MODE	
Output voltage	220VAC±10%
Output frequency Output waveform	50Hz ± 0.2 Hz
No Load current	Pure Sine Wave ≤ 5% THD <1.8A
Capacity	1100VA
Discharging current @ full load	60A ± 2A
Low Battery Warning	10.8V±0.2V
Low Battery Cut	10.4V±0.2V
Change over time UPS mode Change over time WUPS mode	< 10msec < 25msec
Switching Element	MOSFET
Cooling	Temp. Controlled Fan
PROTECTIONS	
Overload in backup mode	Yes provided, system will indicate on display at 101% load
Short Circuit in Backup Mode Short Circuit in Mains Mode	System will shutdown after 3 - retries in case of output short circuit Mains MCB will trip
Back feed	System will shutdown in case of back feed and there is no retry
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down
Reverse Battery	DC fuse will blown
Phase to Phase protection in mains mode	Ves provided by electronic
	Yes provided by electronic
SOLAR CHARGE CONTROLLER	
	MPPT 750 WATT
SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage	МРРТ
SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage Maximum Battery current	MPPT 750 WATT 50V 50V 50 Amp.
SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage Maximum Battery current Efficiency	MPPT 750 WATT 50V 50V 50 Amp. > 93%
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SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage Maximum Battery current Efficiency Reverse PV protection Switches Reverse current flow to PV Sharing of current when PV and Grid Both are available DOD definition(Depth of Discharge) DOD (Depth of Discharge) DOD (Depth of Discharge) LCD Initial Display LCD Status Display LCD Fault / Protection Status Display Buzzer SAFETY HV Test Input to Earth HV Test Output to Earth IR Test Output to Earth IR Test Output to Earth Earth Leakage current in Mains mode Earth Leakage current in Backup mode ENVIRONMENT Operating Temperature	MPPT 750 WATT 50V 50 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. Mains will be connect when battery voltage reach at defined value of the battery voltage. 20%- if battery voltage is 12.5v 30%- if battery voltage is 11.5v 50%- if battery voltage is 11.5v 50%- if battery voltage is 11.5v 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 Leakage current <sma 1="" 1.5kv="" applied="" for="" min<="" td="" when=""> Leakage current <sma 1="" 1.5kv="" applied="" for="" min<="" td="" when=""> Leakage current <sma 1="" 1.5kv="" applied="" for="" min<="" td="" when=""> 2.5mA <2.5mA</sma></sma></sma>
SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage Maximum Battery current Efficiency Reverse PV protection Switches Reverse current flow to PV Sharing of current when PV and Grid Both are available DOD definition(Depth of Discharge) DOD (Depth of Discharge) DOD (Depth of Discharge) LCD Initial Display LCD Status Display LCD Fault / Protection Status Display Buzzer SAFETY HV Test Input to Earth IR Test Output to Earth IR Test Output to Earth R Test Output to Earth Earth Leakage current in Mains mode Earth Leakage current in Backup mode ENVRONMENT Operating Temperature Storage Temperature	MPPT 750 WATT 50V 50 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. Mains will be connect when battery voltage reach at defined value of the battery voltage. 20%- if battery voltage is 12.5v 30%- if battery voltage is 12.5v 30%- if battery voltage is 11.5v 50%- if battery voltage is 11.5v S0%- if battery voltage is 11.0v 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 Voltage, Battery Cutage. Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Late Mains Fuse Blown / MCB Trip, Short Circuit, Overload, Battery Low, High Temperature, Back feed Leakage current <5mA when 1.5kV applied for 1 min
SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage Maximum Battery current Efficiency Reverse PV protection Switches Reverse current flow to PV Sharing of current when PV and Grid Both are available DOD definition(Depth of Discharge) DOD (Depth of Discharge) DOD (Depth of Discharge) LCD Initial Display LCD Status Display LCD Fault / Protection Status Display Buzzer SAFETY HV Test Input to Earth HV Test Output to Earth IR Test Output to Earth IR Test Output to Earth Earth Leakage current in Mains mode Earth Leakage current in Backup mode ENVIRONMENT Operating Temperature Storage Temperature Operating Relative Humidity DIMENSIONS	MPPT 750 WATT 50V 50 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. Mains will be connect when battery voltage reach at defined value of the battery voltage. 20%- if battery voltage is 12.5v 30%- if battery voltage is 12.0v 40%- if battery voltage is 11.5v 50%- if battery voltage is 11.5v 50%- if battery voltage is 11.0v 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 Euse 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
SOLAR CHARGE CONTROLLER Solar Charge Controller type Max Panel wattage can be connected Maximum PV Voltage Maximum Battery current Efficiency Reverse PV protection Switches Reverse current flow to PV Sharing of current when PV and Grid Both are available DOD definition(Depth of Discharge) DOD (Depth of Discharge) DOD (Depth of Discharge) LCD Initial Display LCD Status Display LCD Fault / Protection Status Display Buzzer SAFETY HV Test Input to Earth IR Test Output to Earth IR Test Output to Earth R Test Output to Earth Earth Leakage current in Mains mode Earth Leakage current in Backup mode ENVIRONMENT Operating Temperature Storage Temperature	MPPT 750 WATT 50V 50 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. Mains will be connect when battery voltage reach at defined value of the battery voltage. 20%- if battery voltage is 12.5v 30%- if battery voltage is 11.5v 50%- if battery voltage is 11.5v 50%- if battery voltage is 11.5v 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 Leakage current <sma 1="" 1.5kv="" applied="" for="" min<="" td="" when=""> Leakage current <sma 1="" 1.5kv="" applied="" for="" min<="" td="" when=""> Leakage current <sma 1="" 1.5kv="" applied="" for="" min<="" td="" when=""> 2.5mA <2.5mA</sma></sma></sma>