

TECHINICAL	SPECIFICATION	

DOC REF NO.

Electrical:

Battery Type Technology

PRODUCT FG CODE

Model

Max. BATTERY Current Rating

Battery Qty.12V 100-220AH

Bulk/ Absorption Voltage

MAINS DISCONNECT

Peak Efficiency

D.O.D (Depth of Discharge)

Mains AC low cut WUPS mode

Mains AC high cut WUPS mode

Voltage Output in Mains Mode

Panel configuration VOC (NTC)

Frequency Output in Mains Mode

Input Frequency Range

Panel configuration (NTC)

Reverse PV Protection

Reverse Current Flow to PV

DISPLAY PARAMETERS Display Type

SCC Fault/Protection Status

Operating Relative Humidity

Operating Temperature Storage Temperature

PROTECTIONS Reverse Battery

High PV Voltage Over Current

MCB

Fixing

Dimension

Weight

Thermal Protection

Display Messages

ENVIRONMENT

Boost Charging Voltage For LA Battery

Mains Connect if Solar Power Not Available

MPPT To PV Power Connection Time

Mains AC low cut recovery WUPS mode

Mains AC high cut recovery WUPS mode

Boost Charging Voltage For Tubular And SMF Battery

Max. PV Voltage Rating

High PV Voltage

DOD level

Max. Panel Install

RD/MPPT/24V/50A/R.01

SCD-PR-024-050-01

12V

45V+0.5V

>45V

up to 750W

14.5V±0.2V

14V+0.2V

14 8V+0 2V

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 11.0v

250W 2P

37V

MODEL - PRIME SERIES SPECIFICATIONS (MPPT BASED)

LA/Tubular/SMF

Digital Processor Based High Efficiency Design

50AMP.

At any Stage of Battery Voltage

if Battery reaches boost level then after <10 min. Mains Will be disconnect.

mains will be connect when battery voltage reach at defined value of the battery voltage.

<15 Sec.

>94%

90VAC ± 10VAC

110VAC ± 10VAC

295VAC ± 10VAC

285VAC ± 10VAC

40Hz to 60Hz

Same as input

Same as input

Yes

Yes

Yes

Yes, Provided Battery current >30Amp

MCB ensures your UPS and connected loads stay protected from short circuits

LCD Display

Welcome, Smarten Website Address, System Capacity, Mains available, battery priority, PV Current, Battery current, PV

Reverse PV/High PV voltage /High Temp.

0°C To 40°C

0°C To 50°C

Wall Mounted

90% Non-Condensing

310X310X180

3kg

MPPT 12-24 automatic

24V

85V+1V

>85\/

up to 1500W

29V±0.2V

28V+0.2V

29 6V+0 2V 20%- if battery voltage is 25.0v

30%- if battery voltage is 24.0v

40%- if battery voltage is 23.0v

50%- if battery voltage is 22.0v

250W 2S 2P/330W 3P

74V/ 48V