SR100C SERIES

NO Break / DC UPS Charger: 100 Watts





Features

- High performance No-Break TMDC UPS system
- Automatic battery condition test option
- Separate outputs for load and b attery
- Battery detection regular battery presence and battery circuit in tegrity checks
- Battery deep discharge protection
- ECB for battery overload & short circuit protection
- Reverse battery polarity protection
- Automatic temperature compensated output volts
- Power loss & battery system alarms
- No transition switching to backup battery
- LED flash codes for precise fault indication
- Optional communication interface allows remote monitoring & user control of BCT function - iversio ns

incl. SR100i (with Communications Options)

Specifications

Input voltage 180V - 264VAC 45-65Hz standard

88V- 132VAC 45-65Hz, optional

Fusing / protection Input fuse & varistor

Output fuse & ECB for battery circuit

Isolation 1KV DC input - output / earth

<u>></u>85% Efficiency

<30A, 1.8ms Inrush current

100W Output power

13.8, 27.6, 34.5, 41.4, 55.2VDC Output voltage

85 - 105% of Vout Voltage adj. range

Temperature sensor on 1.7m lead with adhe-Temp. compensation

sive pad: -4mV / °C / cell ±10%

Current Limit PSU: 100% rated current

Battery: 25-100% PSU current

<0.04% over AC input range Line regulation

<0.5% open circuit to 100% load Load regulation

< 0.3% Noise

Transient response 200mV over / undershoot,

load step 20-100%, 400us settling time

Thermal protection Yes, self-resetting

Hold-up time 15 - 20 ms (nom. - max. Vin) without

battery

FMI to CISPR 22 / EN55022 class A, C-tick com-

Safety to IEC950 / EN60950 / AS/NZS3260

No-Break™ FUNCTIONS AND ALARMS

Battery charge 100% of PSU rated current unless specified current limit on orderina

Reverse polarity pro-

Battery monitoring

Detects for presence of battery on start up, then every 60 minutes when charge current <

Electronic circuit breaker (ECB) operates

battery voltage drops to 1.67V/cell -

< 300ms for I bat > 6 x I PSU rated, al-

lows ~1.5x rated PSU current from bat-

Battery reverse connection will open internal

200mA

Batterycircuit protec-

- low battery volts

- overload

- short circuit

LED indication

Alarm relay contacts

Battery condition test

Alarms

(BCT)

Green: Power OK

fuse (and produce alarm)

under the following conditions:

tery without acting,

auto reset on power on

< 2ms, backed up by fuse

Green: Battery OK

Power OK (Mains/PSU fail)

Battery System OK - alarms when battery voltage low (on mains fail), battery

missing, battery circuit wiring faulty, BCT

fail (if enabled)

C - NO - NC full changeover rated

30VDC,2A /110VDC,0.3A/125VAC,0.5A

Standard on SR100 i versions

BCT relay contact provided to control an

external test load.

Mechanical IEC320 input socket (similar to PCs etc.)

Plug-in style socket & mating screw terminal

block: (max. wire 2.5mm² / way)

Plug in screw terminal block

Zinc plated & powder coated steel

147W x 177D x 62H mm

0.95 Kg

Specifications are subject to change without prior notice.

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STANDARD MODEL TABLE

MODELS	DC Output				
	Output (V)	PSU Rated (A)	Charge Limit (A) *1	Recomm. Load (A)	Peak load on power fail (A)
SR100C12	13.8	7.5	7.5	6.0	11
SR100C24	27.6	3.7	3.7	3.0	5.5
SR100C30	34.5	2.9	2.9	2.3	4.3
SR100C36	41.4	2.4	2.4	1.9	3.6
SR100C48	55.2	1.9	1.9	1.5	2.8



SR100i with RS485 serial port

ENVIRONMENTAL

Operating 0 - 50 °C ambient at full load

temperature De-rate linearly >50 °C to no load @ 70 °C

Storage temperature -10 to 85 °C ambient

Humidity 0 - 95% relative humidity non-condensing

ACCESSORIES SUPPLIED

Mounting feet together with screws AC power cord 1.5m with IEC320 socket & AUS/NZ plug Mating screw terminal plug for DC output Mating screw terminal plug for alarms

OPTIONS

Battery Condition Test Add option SFMCT xxxxx for SR100C. De-

fault setting 20mins/28 days.

SR100i: default setting is scheduled BCT

disabled at start up

Communication Port

for -i & V versions

Choice of RS485, RS232, LAN+ (SNMP), LAN

Modbus converter For SR100i ... 485, use protocol converter,

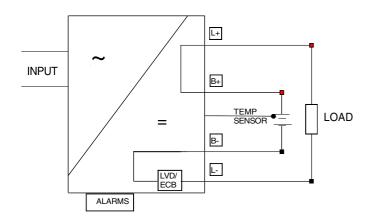
with programming port for PC. Power MBLink

setup software supplied.

add +PROTOCONMB or add +PROTOCONMB-OE with ethernet port

*1 Charge current limit 25% & 50% settings available

SCHEMATIC BLOCK DIAGRAM



CABINET OPTIONS

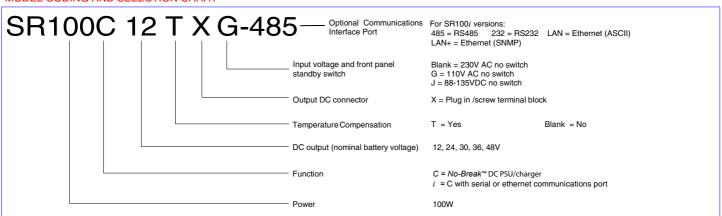
19"Rack Mount 2U sub rack option: add SR-RM2U

Optional V/I meter for subrack: SR-METER

Wall Mount Enclosure PSU may be fitted into enclosure with MCBs

and terminals: add SEC-SR

MODEL CODING AND SELECTION CHART



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