



Communication options available



Z367

- High performance **No-Break™ DC UPS system**
- Automatic battery condition test option
- Separate outputs for load and battery
- Battery detection - regular battery presence and battery circuit integrity 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 - *i* versions

◆ 24 Month Warranty

SPECIFICATIONS All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

ELECTRICAL

| | |
|------------------------------------|--|
| Input voltage ▪ standard | 180V - 264VAC 45-65Hz |
| ▪ optional | 88V- 132VAC 45-65Hz, |
| Fusing / protection | Input fuse & varistor Output fuse & ECB for battery circuit |
| Isolation | 1KV DC input - output / earth |
| Efficiency | ≥ 85% |
| Inrush current | <30A, 1.8ms |
| Output power | 100W |
| Output voltage | 13.8, 27.6, 34.5, 41.4, 55.2VDC |
| Voltage adj. range | 85 - 105% of Vout |
| Temp. compensation | Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10% |
| Current Limit | PSU: 100% rated current Battery: 25-100% PSU current |
| Line regulation | <0.04% over AC input range |
| Load regulation | <0.5% open circuit to 100% load |
| Noise | <0.3% |
| 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 |

STANDARDS

| | |
|---------------|--|
| EMI | to CISPR 22 / EN55022 class A, C-tick compliance |
| Safety | to IEC950 / EN60950 / AS/NZS3260 |

No-Break™ FUNCTIONS AND ALARMS

| | |
|--|--|
| Battery charge current limit | 100% of PSU rated current unless specified on ordering |
| Reverse polarity protection | Battery reverse connection will open internal fuse (and produce alarm) |
| Battery monitoring | Detects for presence of battery on start up, then every 60 minutes when charge current < 200mA |
| Battery circuit protection - low battery volts | Electronic circuit breaker (ECB) operates under the following conditions: <ul style="list-style-type: none"> • battery voltage drops to 1.67V/cell - auto reset on power on |
| - overload | <ul style="list-style-type: none"> • < 300ms for I bat > 6 x I PSU rated , allows ~1.5x rated PSU current from battery without acting, |
| - short circuit | <ul style="list-style-type: none"> • < 2ms, backed up by fuse |
| LED indication | Green: Power OK Green: Battery OK |
| Alarms | <ul style="list-style-type: none"> • 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) |
| Alarm relay contacts | C - NO - NC full changeover rated 30VDC, 2A / 110VDC, 0.3A/125VAC, 0.5A |
| Battery condition test (BCT) | Standard on SR100 <i>i</i> versions BCT relay contact provided to control an external test load. |

PHYSICAL

| | |
|---------------------------|--|
| AC input connector | IEC320 input socket (similar to PCs etc.) |
| DC connections | Plug-in style socket & mating screw terminal block: (max. wire 2.5mm ² / way) |
| Alarm connections | Plug in screw terminal block |
| Enclosure | Zinc plated & powder coated steel |
| Dimensions | 147W x 177D x 62H mm |
| Weight | 0.95 Kg |

100 Watt No-Break™ DC charger for lead acid batteries

SR100C

incl. SR100i

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 temperature *Standard:* 0 to 50 °C ambient at full load
Option - Low temp: -20 to 50 °C ambient at full load, add suffix -LT
De-rate linearly >50 °C to 0 load @ 70 °C

Storage temperature -20 to 85 °C ambient

Humidity 0 - 95% relative humidity non-condensing

Cooling Natural convection

OPTIONS

Battery Condition Test Add option **SFMCT xxxxx** on SR100C. Default setting 20mins/28 days.
SR100i : default setting is scheduled BCT disabled at start up

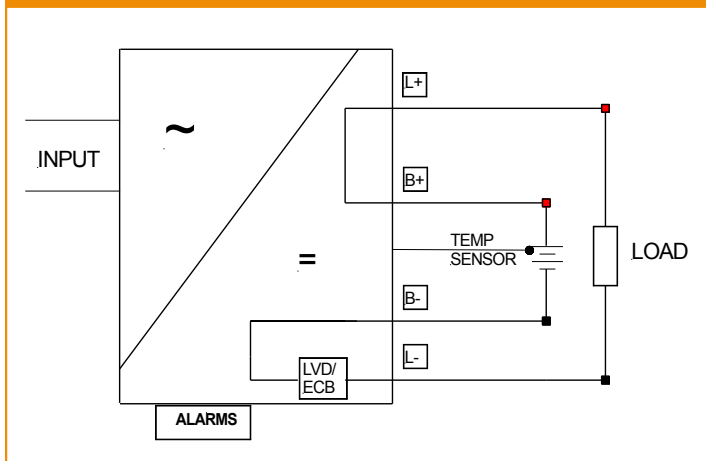
Communication Port for -i & V versions Choice of RS485, RS232, LAN+ (SNMP), LAN (ASCII)

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

25% & 50% settings available

*1 **Charge current limit**

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**

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

MODEL CODING AND SELECTION CHART

SR100C 12 T X G-485

Optional Communications Interface Port

For SR100i versions:
485 = RS485 232 = RS232 LAN = Ethernet (ASCII)
LAN+ = Ethernet (SNMP)

Input voltage and front panel standby switch

Blank = 230V AC no switch
G = 110V AC no switch
J = 88-135VDC no switch

Output DC connector

X = Plug in /screw terminal block

Temperature Compensation

T = Yes Blank = No

DC output (nominal battery voltage)

12, 24, 30, 36, 48V

Function

C = No-Break™ DC PSU/charger
i = C with serial or ethernet communications port

Power

100W