

# SR100C SERIES

NO Break / DC UPS Charger: 100 Watts



## Features

- High performance *No-Break*<sup>TM</sup> 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 - *inversions*

*incl. SR100i ( with Communications Options )*

## Specifications

Input voltage	180V - 264VAC 45-65Hz
■ standard	
■ 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
EMI	to CISPR 22 / EN55022 class A, C-tick compliance
Safety	to IEC950 / EN60950 / AS/NZS3260

## *No-Break*<sup>TM</sup> 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	Electronic circuit breaker (ECB) operates under the following conditions:
- <i>low battery volts</i>	<ul style="list-style-type: none"> <li>• battery voltage drops to 1.67V/cell - auto reset on power on</li> </ul>
- <i>overload</i>	<ul style="list-style-type: none"> <li>• &lt; 300ms for I bat &gt; 6 x I PSU rated , allows ~1.5x rated PSU current from battery without acting,</li> </ul>
- <i>short circuit</i>	<ul style="list-style-type: none"> <li>• &lt; 2ms, backed up by fuse</li> </ul>
LED indication	Green: Power OK Green: Battery OK
Alarms	<ul style="list-style-type: none"> <li>■ Power OK (Mains/PSU fail)</li> <li>■ Battery System OK - alarms when battery voltage low (on mains fail) , battery missing, battery circuit wiring faulty, BCT fail (if enabled)</li> </ul>
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.

Mechanical	IEC320 input socket (similar to PCs etc.)  Plug-in style socket & mating screw terminal block: (max. wire 2.5mm <sup>2</sup> / way)  Plug in screw terminal block  Zinc plated & powder coated steel  147W x 177D x 62H mm  0.95 Kg
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*Specifications are subject to change without prior notice.*

