



◆ 24 Month Warranty

- Designed to industrial standards for cyclic re-charging of Li-ion batteries
- Not intended for use with standing loads
- Reverse polarity protection
- Operating state and fault indication
- Optional relay alarm outputs (SR... LIE versions)
- Constant current charge followed by constant voltage charge
- Adjustable time out (default setting 10hours)
- Mains fail during charging alert
- LED indication
- Front panel controls (except SR100LI &SR100LIE)
- Battery over temperature cut out

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

ELECTRICAL

Input Voltages	230V AC: 180V - 264V (Standard) 110V AC: 88V - 132V (Optional)
Frequency	45- 65 Hz
Fusing / Protection	Internal AC input fuse
Isolation	1KV DC input - output / earth
Efficiency	≥ 85%
Inrush current	Soft start circuit
Output Power	100 - 750W continuous
Output Voltages	9.5 - 55.5V (set to customer specification)
Voltage adj. range	Approx 95 - 105% of V nominal
Current Limit	Set to customer specification
Charge Time Setting	Adjustable (default = 10 hours)
Output Protection	Automatic shutdown if battery leads reversed or short circuit on output
Line Regulation	< 0.2% over AC input range
Load Regulation	< 0.4% open circuit to 100% load
Noise	< 1%
Drift	0.03% / °C
Thermal Protection	Battery overtemp. cutout at 65°C
OVP	Over-voltage protection on output at ~ 130% of nominal output voltage
EMI	to CISPR 22 / EN55022 class A

ENVIRONMENTAL

Operating temperature	0 - 50°C ambient at full load De-rate linearly >50° C to no load @ 70° C
Storage temperature	-10 to 85 °C ambient
Cooling	Natural or fan cooled depending on model

CONTROL

Switch functions (not on SR100LI)	STATUS 2: Restarts charge cycle after time out
	STANDBY: Push button to turn output off

LED INDICATION

Status 1 (red)	Status 2 (green)	Description
Off	Flash	Charging (constant current)
Off	On	Charged * ¹
Off	Occulting * ⁴	Charged and timed out
Flash	Off	Standby* ² , Charger or Mains Fail
On	Off	Timed out during CC phase * ³
Alternate fast flash		Over Temp. (charging terminated)

*1. charge current drops to <50% max current

*2. Not available 100W

*3. battery capacity too high for charger or battery faulty

*4 Occulting = LED flashes with 'on' state longer than 'off' state

OPTIONAL ALARM RELAY OUTPUTS : On = Energised

STATUS 1	STATUS 2	DESCRIPTION
On	On	Charging
On	Off	Charged
Off	Off	Stand-by/Charger or Mains fail, Charged
Off	On	Stand-by/Charger or Mains fail, Battery not charged

PHYSICAL

AC Input Connection	IEC320 inlet socket (AC power cord supplied)
DC Output Connection	M6 brass stud, or 'Phoenix combicon' Plug-in style socket & mating screw terminal block: (max. wire 4mm ² / way)
Enclosure	Powder coated or zinc plated steel / anodised aluminium
Dimensions	SR100LI(E): 147 x 177 x 62mm, 1kg SR250LI(E): 150 x 242 x 61mm, 1.7kg SR500/750LI(E): 223 x 340 x 70mm, 4.3kg
Safety	to IEC950 / EN60950 / AS/NZS3260