



FEATURES AND BENEFITS

- Fully automatic operation
- Designed to industrial standards
- Automatic temperature compensation
- Indefinite short circuit protection
- Operating state and fault indication
- Non-destructive reverse polarity protection
- Can safely be left permanently connected to battery, will maintain 'float' charge
- Fully programmable microprocessor control
- ISO9001 Design management system
- Designed and manufactured in NZ

The **SR SmartCharger** is designed to recharge your battery in the shortest practicable time with programmable parameters to suit your specific application.

SPECIFICATIONS

ELECTRICAL	
Input	STANDARD: 180V - 264VAC OPTIONAL: 88V - 132VAC
Frecuency	45-65Hz
Fusing	Internal AC input fuse
Isolation	1KV DC input - output / earth
Efficiency	> 85%
Inrush current	<30A, 1.8ms
Output power	100W
Output voltages	Refer to the model table
Voltage adj. range	Approx 95 - 105% of V nominal
Temp. Compensation	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10%
Current Limit	Straight line current limit profile (output side)
Output Protection	Automatic shutdown if battery leads reversed or short circuit on output
Line regulation	<0.04% over 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
Hold-up time	15 - 20 ms (nom. - max. Vin) without battery
MECHANICAL	
AC Input Connector	IEC320 inlet socket (power cord supplied)
DC Output Connection	Plug-in style socket & mating screw terminal block: (max. wire 2.5mm ² / way)
Enclosure	Zinc plated steel/powder coated lid
Dimensions	146.5 W x 62 H x 177 D mm
Weight	0.94Kg
Mounting	Brackets for permanent fixture.

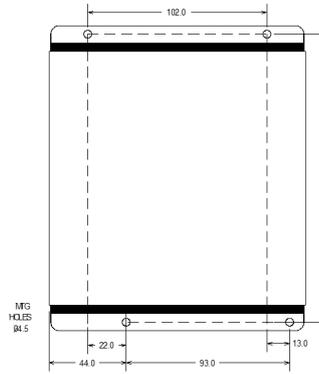
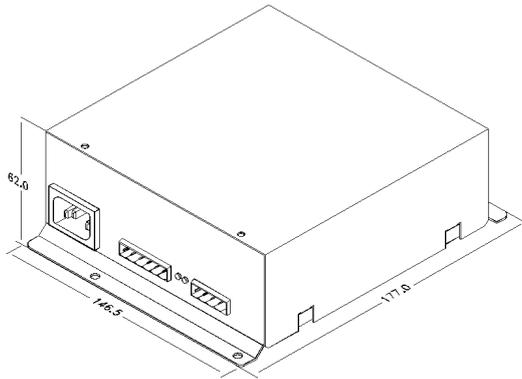
FEATURES	
LED Indication	BOOST: Red
	FLOAT: Green
Factory Programmable parameters (default settings shown in brackets; please note that some parameters are interdependent of each other)	Start up in boost mode (Boost)
	Current terminated boost (Yes)
	Current initiated boost (Yes)
	Start in boost on mains return (Yes)
	Pre-boost state timer (1 minute)
	Max boost charge time (24 hours)
	Pre-float state timer (1 minute)
	Resume prior state upon mains return timer (10 minutes)
	Resume on boost charge upon mains return (24 hours)
	Delay before mains fail recognition (5 mins)
ENVIRONMENTAL	
Operating temperature	Standard: 0 to 50 °C ambient at full load ,De-rate linearly >50 °C to no load @ 70 °C
Storage temperature	-10 to 85 °C ambient
Humidity	0 - 95% relative humidity non-condensing
Cooling	Natural convection
STANDARDS	
Emi	To CISPR 22 / EN55022 class A
Safety	To IEC950 / EN60950 / AS/NZS3260
ELECTRICAL OPTIONS	
Alarms	Not available with this model
Adjustable Parameters	All firmware parameters listed under features may be adjusted at time of ordering.
MOUNTING OPTIONS	
Rack mount	2RU x 19" rack - (rear connection)Code: SR-RM2U
Wall Mount Enclosure	Code: SEC-SR

SR100B TABLE

MODELS	Output Voltage ¹ (float)	Output Voltage ¹ (max boost)	Output Current (continuous)	Min - Max Battery Size ²
SR100B12	13.8	14.7	6.7A	24 - 70 Ah
SR100B24	27.6	29.4	3.3A	12 - 40 Ah
SR100B36	41.4	44.1	2.2A	9 - 25 Ah
SR100B48	55.2	58.8	1.7A	6 - 20 Ah

¹ May be adjusted to suit battery specifications
² Check manufacturer's recommendations

MOUNTING DETAILS / DIMENSIONS



WARNING

If the SmartCharger is connected to operating equipment during charging:

1. Equipment will be subjected to 1.22 times the nominal voltage.
2. The standing load must be taken into account for the correct operation of the charger. Please contact our sales office if you have any

MODEL CODING AND SELECTION CHART

MODEL	INPUT VOLTAGE			OUTPUT CONECTOR	
SR100B12	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X
SR100B24	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X
SR100B36	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X
SR100B48	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X

S: Stud X: Phoenix combicon (plug in screw t.b)