

FEATURES AND BENEFITS



- Auto or Manual initiated boost charge
- Designed to industrial standards
- Automatic temperature compensation
- Short Circuit and reverse polarity protection
- Operating state and fault indication
- Fully programmable microprocessor control
- Can safely be left permanently connected to battery, will maintain 'float' charge
- Optional standard smartcharger without alarm outputs (SR250B)
- 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
Frequency	45-65Hz
Fusing	Internal AC input fuse
Isolation	1KV DC input - output / earth
Efficiency	> 85%
Inrush current	Soft start circuit
Output power	250W
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	< 0.2% over AC input range
Load regulation	< 0.4% open circuit to 100% load
Noise	<1%
Drift	0.03% / °C
Hold-up time	15 - 20 ms (nom. - max. Vin) without battery
OVP	Over-voltage protection on output at ~ 130% of nominal output voltage
Thermal Protection	Yes
Alarm & boost/float indication relays*	Mains fail
	Batt low (set at 1.83V/cell = 11, 22V, etc)
	Boost/float
Alarm Relay Contacts	C - NO - NC full changeover Rated 1A @ 50V DC or 32VAC
Adjustable Parameters	All firmware parameters listed under features may be adjusted at time of ordering
MECHANICAL	
AC Input Connector	IEC320 inlet socket (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
Weight	1.7Kg
FEATURES	
Switch/ LED Indication & functions	BOOST: Red
	FLOAT: Green
	STANDBY: Red (Push button to turn output off/on). Refer to instruction manual for full list of LED Operation codes
Factory Programmable parameters (default settings shown in brackets; please note that some parameters are interdependent of each other)	Start up in boost or float mode (Boost)
	Current terminated boost (Yes)
	Current initiated boost (Yes)
	Start boost on mains return (Yes)
	Pre-boost state timer 1-255 minutes (1)
	Max boost charge time 0-48 hours (24)
	Pre-float state timer 1-255 minutes (1)
	Resume prior state upon mains return timer 1-255 minutes (10)
	Resume on boost charge upon mains return 0-255 hours (24)
	Pre-forced float timer 1-255 minutes (1)
Delay before mains fail recognition 4sec - 8.5minutes(5 minutes)	
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 or fan cooled optional depending on model
Temperature Compensation	For accurate battery charging/float output voltage is automatically adjusted according to ambient temperature
STANDARDS	
Emi	To CISPR 22 / EN55022 class A
Safety	To IEC950 / EN60950 / AS/NZS3260
ELECTRICAL OPTIONS	
Alarms	If is required the standard smartcharger without alarms please ask for SR250B reference.
MOUNTING OPTIONS	
Rack mount	2RU x 19" rack - (rear connection)Code: SR-RM2U
Wall Mount Enclosure	Code: SEC-SR

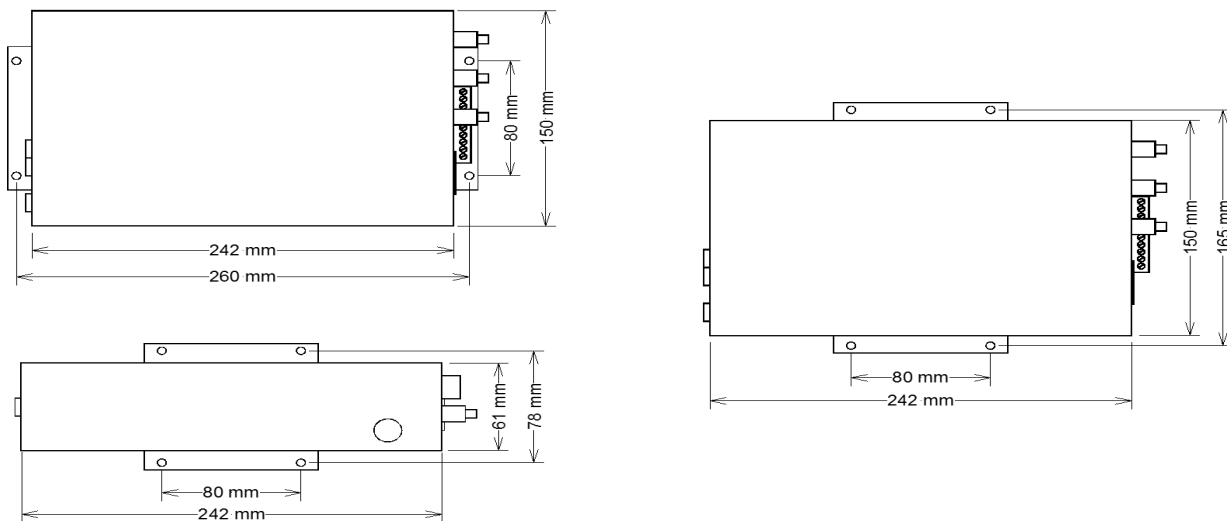
SR250E TABLE

MODELS	Output Voltage ¹ (float)	Output Voltage ¹ (max boost)	Output Current (continuous)	Min - Max Battery Size ²
SR250E12	13.8	14.7	16.7A	65-200 Ah
SR250E24	27.6	29.4	8.3A	30-100 Ah
SR250E36	41.4	44.1	5.6A	22-70 Ah
SR250E48	55.2	58.8	4.2A	15-50 Ah

¹ May be adjusted to suit battery specifications

² Guidelines only. Please 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 standing load.

MODEL CODING AND SELECTION CHART

MODEL	COOLING	INPUT VOLTAGE			OUTPUT CONNECTOR	
SR250E12	NA	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X
SR250E24	<input type="checkbox"/> WITH FAN	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X
SR250E36	<input type="checkbox"/> WITH FAN	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> S	<input type="checkbox"/> X
SR250E48	<input type="checkbox"/> WITH FAN	<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)