



Optional V/I meter shown

- Suitable for all lead acid batteries
- Auto or manual initiated boost charge
- Designed to industrial standards
- Automatic temperature compensation
- Short circuit and reverse polarity protection
- LED indication shows operating state
- Fully programmable microprocessor control
- Can safely be left permanently connected to battery, will maintain 'float' charge
- Optional relay alarm outputs (SR750E ..)
- ISO9001 Design management system
- Fully designed and manufactured in NZ

◆ 24 Month Warranty

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

ELECTRICAL

Input Voltage	180V - 264V, 45-65Hz 88V - 132V , 45-65Hz (optional)
Input protection	Internal fuse
Output protection	Automatic shutdown if battery leads reversed
Current limit	Constant current limit on overload & short circuit
Isolation	1KV DC input - output / earth
Efficiency	≥ 85%
Inrush current	Soft start
Output power	500W
Output voltages	Refer to model table
Voltage adj. range	Approx 95 - 105% of V nominal
Temp. compensation	Output voltage compensated at -4mV / °C / cell
Line regulation	<0.2% over input range
Load regulation	<0.4% open circuit to 100% load
Noise	<0.1%
OVP	Over-voltage protection on output at ~ 130% of nominal output voltage
Thermal protection	Yes, self resetting

STANDARDS

EMI	to CISPR 22 / EN55022 class A
Safety	to IEC950 / EN60950 / AS/NZS3260

FEATURES

Switch/ LED Indication & functions	BOOST: Red (Push button to boost) FLOAT: Green (Push button to 'force' float) 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)*1	- Start up in boost or float mode (Boost) - Current terminated boost (Yes, at 10% rated current) - Current initiated boost (Yes) - Start boost on mains return (Yes) - Pre-boost time (PBT) 1-255 minutes (1) - Max boost time (BT) 1-48 hours (24) - Pre-float timer 1-255 minutes (1) - Resume prior state upon mains return timer 1-255 minutes (10) - Resume on boost charge upon mains return 1-24 hours (24) - Pre-forced float timer 1-255 minutes (1) - Delay before mains fail recognition 4sec - 8.5minutes(5 minutes)
Please note that some parameters are interdependent of each other.	
*1 except high voltage versions	

PHYSICAL

AC Input connector	IEC320 socket (AC power cord supplied)
DC Connections	M6 brass stud or plug-in socket with screw terminals
Enclosure	Powder coated steel
Temperature sensor	1.7m lead with adhesive pad
Weight	4.3 Kg

ENVIRONMENTAL

Operating temperature	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 to 95% relative humidity non-condensing
Cooling	Natural or fan cooled depending on model

750 Watt Three Stage Smartcharger (boost charger)

SR750B

incl. SR750E

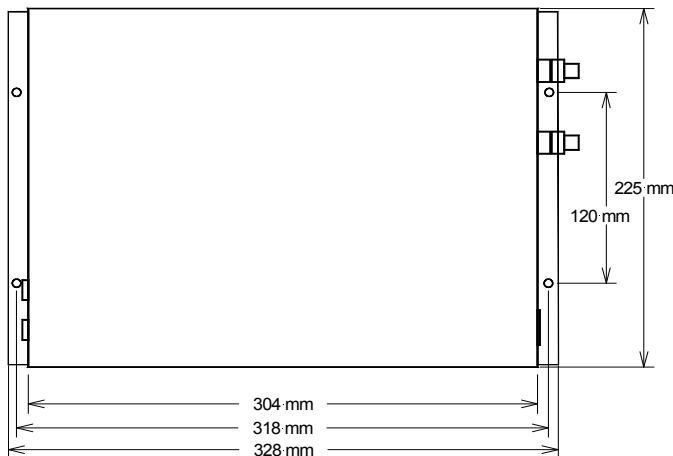
STANDARD MODEL TABLE

MODELS	Nominal Voltage	Float Voltage	Boost Voltage	Output Amps (continuous)	Battery Size Ah
SR750B12	12	13.8	14.7	50	200-900
SR750B24	24	27.6	29.4	25	100-450
SR750B36	36	41.4	44.1	16.7	66-300
SR750B48	48	55.2	58.8	12.5	50-220
SR750B72*	72	82.8	88.6	6	27-120
SR750B91 *	96	110.4	117.6	6.2	25-110
SR750B92 *	108	124.2	132.3	5.6	22-100
SR750B93 *	120	138.	147.0	5	20-90

* High voltage versions **SR750B72, 91, 92, 93** have a manual boost function. Initiation of boost charge is by pushing the BOOST switch or relay contact. Termination of boost charge is by manual push button (FLOAT or STANDBY) or by the time set by the internal timer (BT setting). They do not have a current terminated boost function.

These versions have **Mains Fail** and **Battery Low** alarms as standard but no boost/float indication relay.

MOUNTING DETAILS / DIMENSIONS



DIMS: 225W x 77H (incl. feet) x 340D

OPTIONS

Alarm & boost/float indication relays	<ul style="list-style-type: none"> • 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
Output Volts	May be adjusted to suit battery specifications
Mode of Operation	All firmware parameters listed under features may be adjusted at time of ordering

MOUNTING & DISTRIBUTION OPTIONS

Rack mount	2RU x 19" rack - (rear connection) Code: SR-RM2U
Wall Mount Enclosure	Code: SEC-SR

For full information on these options please refer to respective data sheets.

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

SR750B 12 T F S L +Int-Meter

(with Volt/ Amp Meter) No = blank

Input voltage and front panel switches:	230V AC + switch = L 110V AC + switch = U	230V AC no switch = blank 110V AC no switch = G
Output DC Connector type:	Stud = S	Phoenix combicon (plug in screw t.b.) = X
Fan cooled:	With fan = F	No fan = blank
Temperature Compensation	Yes = T	No = blank
DC output code	12, 24, 36, 48, etc	
Function	B = Standard SmartCharger for lead acid batteries E = Standard SmartCharger with alarms	
Power	750W	