



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 | | FEATURES | |
|---------------------------|---|---|---|
| Input Voltage | 180V - 264V, 45-65Hz 88V - 132V , 45-65Hz (optional) | 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 |
| Input protection | Internal fuse | 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) |
| Output protection | Automatic shutdown if battery leads reversed | Please note that some parameters are interdependent of each other. | |
| Current limit | Constant current limit on overload & short circuit | *1 except high voltage versions | |
| Isolation | 1KV DC input - output / earth | PHYSICAL | |
| Efficiency | ≥ 85% | AC Input connector | IEC320 socket (AC power cord supplied) |
| Inrush current | Soft start | DC Connections | M6 brass stud or plug-in socket with screw terminals |
| Output power | 500W | Enclosure | Powder coated steel |
| Output voltages | Refer to model table | Temperature sensor | 1.7m lead with adhesive pad |
| Voltage adj. range | Approx 95 - 105% of V nominal | Weight | 4.3 Kg |
| Temp. compensation | Output voltage compensated at -4mV / °C / cell | ENVIRONMENTAL | |
| Line regulation | <0.2% over input range | Operating temperature | 0 to 50°C ambient at full load De-rate linearly >50° C to no load @ 70° C |
| Load regulation | <0.4% open circuit to 100% load | Storage temperature | -10 to 85 °C ambient |
| Noise | <0.1% | Humidity | 0 to 95% relative humidity non-condensing |
| OVP | Over-voltage protection on output at ~ 130% of nominal output voltage | Cooling | Natural or fan cooled depending on model |
| Thermal protection | Yes, self resetting | | |
| STANDARDS | | | |
| EMI | to CISPR 22 / EN55022 class A | | |
| Safety | to IEC950 / EN60950 / AS/NZS3260 | | |

750 Watt Three Stage Smartcharger (boost charger)

SR750B

incl. SR750E

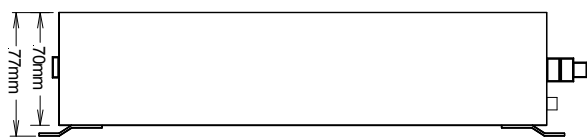
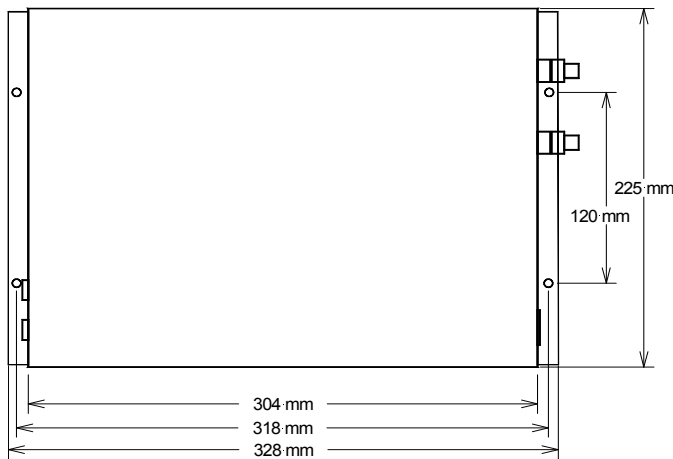
STANDARD MODEL TABLE

| 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 | |