

SR500-750E
SMARTCHARGER 500-750W



24 MONTH WARRANTY

FEATURES AND BENEFITS

- Ideal for cyclic recharging applications
- Suitable for all types of lead acid batteries
- Fully automatic operation
- Fully programmable microprocessor control
- Boost charge can be programmed to be manually initiated (eg. for equalisation charge)
- Designed to industrial standards
- Automatic temperature compensation
- Short circuit and reverse polarity protection
- Operating state and fault indication
- Can safely be left permanently connected to battery, will maintain 'float' charge
- Optional standard smartcharger without alarms outputs(SR500-SR750B)
- 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 All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

MODEL	SR500E	SR750E
SPECS		
ELECTRICAL		
Input	STANDARD: 180V - 264VAC OPTIONAL: 88V - 132VAC	
Frecuency	50 or 60Hz (to be specified at time of order)	
Fusing	Internal AC input fuse	
Isolation	1KV DC input - output / earth	
Efficiency	> 85%	
Inrush current	Soft start circuit	
Output power	500W	750W
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	Constant current limit on overload & short circuit	
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	<0.1%	
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	
Output Volts	May be adjusted to suit battery specifications	
Adjustable Parameters	All firmware parameters listed under features may be adjusted at time of ordering	

MODEL	SR500E	SR750E
SPECS		
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	4.3Kg	
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)* ¹	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 1-48 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)		
*1 except high voltage versions		
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	Fan cooled	
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 SR500B reference.	If is required the standard smartcharger without alarms please ask for SR750B reference.
MOUNTING OPTIONS		
Rack mount	2RU x 19" rack - (rear connection)Code: SR-RM2U	
Wall Mount Enclosure	Code: SEC-SR	

SR500E TABLE

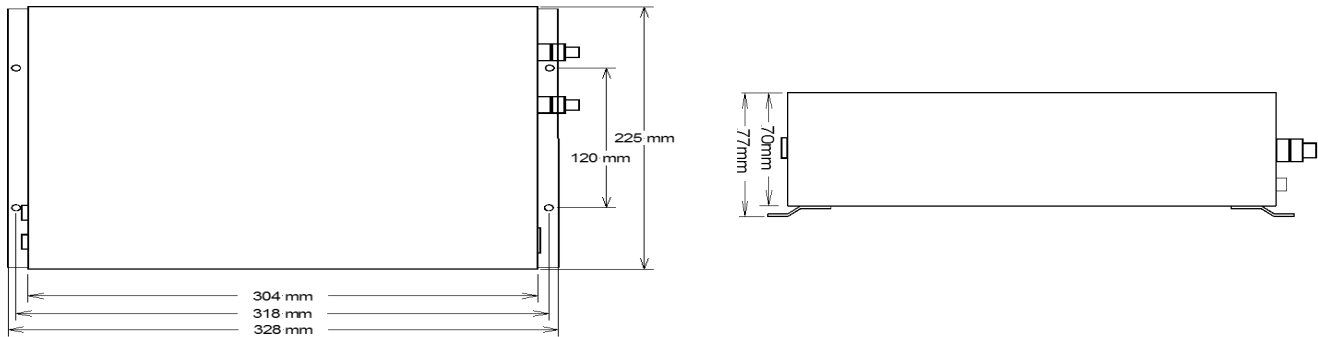
MODELS	Nominal Voltage (W)	Output Voltage ¹ (float V)	Output Voltage (max boost A)	Output Current (continuous A)	Min - Max Battery (Ah)Size
SR500E12	12	13.8	14.7	34	130-600
SR500E24	24	27.6	29.4	17	65-300
SR500E36	36	41.4	44.1	11.3	44-200
SR500E48	48	55.2	58.8	8.5	30-150
SR500E72*	72	82.8	88.6	5.6	22-95
SR500E91 *	96	110.4	117.6	4.2	16-75
SR500E92 *	108	124.2	132.8	3.7	15-65
SR500E93 *	120	138	147	3.4	13-60

SR750E TABLE

MODELS	Nominal Voltage (W)	Output Voltage ¹ (float V)	Output Voltage (max boost A)	Output Current (continuous A)	Min - Max (Ah) Battery Size
SR750E12	12	13.8	14.7	50	200-900
SR750E24	24	27.6	29.4	25	100-450
SR750E36	36	41.4	44.1	16.7	66-300
SR750E48	48	55.2	58.8	12.5	50-220
SR750E72*	72	82.8	88.6	6	27-120
SR750E91 *	96	110.4	117.6	6.2	25-110
SR750E92 *	108	124.2	132.8	5.6	22-100
SR750E93 *	120	138	147	5	20-90

* Note: 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.

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	INPUT VOLTAGE			VOLT/AMP METER	OUTPUT CONNECTOR
SR500E12	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E24	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E36	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E48	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E72*	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E91 *	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E92 *	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR500E93 *	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X

MODEL	INPUT VOLTAGE			VOLT/AMP METER	OUTPUT CONNECTOR
SR750E12	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E24	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E36	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E48	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E72*	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E91 *	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E92 *	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X
SR750E93 *	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 110VDC	<input type="checkbox"/> METER	<input type="checkbox"/> S <input type="checkbox"/> X