



Ideal as Standby Float Charger for lead acid batteries



◆ 24 Month Warranty

- Suitable for power supply or battery charging
 - Conservative design for long life
 - Rapid install with all plug-in connections
 - Wide input voltage window tolerance
 - Precise voltage and current controls
 - Efficient modern 'current-mode' topology
 - Temperature compensation option
 - Optional relay alarm outputs - model SR750D
 - Fully designed and manufactured in New Zealand
 - ISO9001 design management system
- The SR750A DC power supply is a solid, reliable performer for a multitude of DC power applications up to 750W.
 - Designed and manufactured to very high standards to ensure many years of trouble free operation.

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

ELECTRICAL

Input	180V - 264V, 45-65Hz
▪ standard	
▪ optional	88V - 132V, 45-65Hz
Fusing	Internal input fuse
Isolation	3.5KVAC 1 min. in/output 1KV DC input/earth
Efficiency	≥ 85%
Inrush current	Soft start circuit
Output Power	750W continuous (0 - 50°C)
Output Voltages (nominal)	13.8V, 24V, 30V, 36V, 48V, 96V, 108V, 120V Other voltages by request
Voltage adj. range	90 - 120% of V nominal
Temp. Compensation (option)	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10%
Overcurrent Protection	Constant current limit under overload and short circuit conditions (except DC input versions)
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
Thermal Protection	Automatic current reduction if >50°C. Self-resetting
Overvoltage Protection	Yes, at ~ 130% of nominal output voltage
Parallel Operation	Yes, for increased power

PHYSICAL

AC Input connector	IEC320 inlet socket (similar to PCs etc.)
DC Connections	M8 brass stud: or 'Phoenix combicon' Plug-in style socket & mating screw terminal block: (max. wire 4mm ² / way)
Enclosure	Powder coated aluminium
Indication LEDs	Green : DC Power OK, Red : Standby
Weight	4.3 Kg
Alarm Connections (optional)	Plug in screw terminal block (max. wire 2.5mm ²) Contacts: C - NO - NC full changeover rated 1A /50V DC, 32VAC

ENVIRONMENTAL

Operating temperature	0 - 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
Standby Mode	Turns off DC output of PSU

STANDARDS

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

ACCESSORIES SUPPLIED

Mounting Feet together with screws.
AC power cord Standard 1.5m lead with IEC320 socket / local plug.
'Phoenix combicon' DC connector for 'X' version.
Mating screw-terminal plug for alarm outputs
Crimp lugs for stud terminal versions

750 Watt AC/DC Stand Alone Power Supply/Float Charger



STANDARD PREFERRED MODEL TABLE

MODELS	Output Voltage (factory default)	Output Current (A) (continuous)	Adjustable range (V)
SR750A12	13.8	54.0	*11-14
SR750A24	24	31.2	22-29
SR750A30	30	25.0	28-36
SR750A36	36	20.8	34-43
SR750A48	48	15.6	45-57
SR750A91	96	7.8	90-110
SR750A92	108	6.9	100-124
SR750A93	120	6.2	110-145

* max current = 54A at 11-13.8V

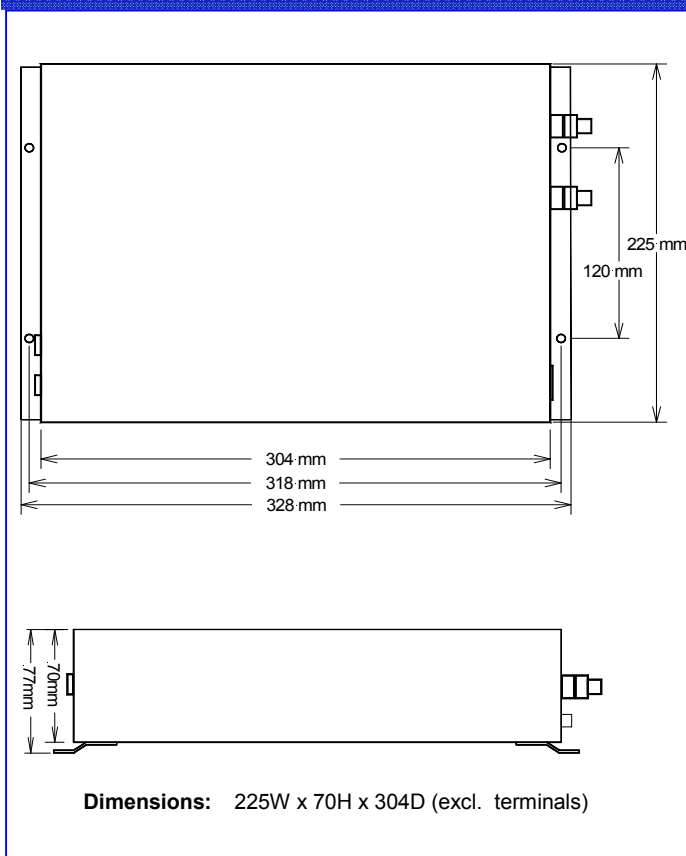
BATTERY CHARGING

Please specify on ordering if unit is for power supply or battery charging duty. The voltage for charging is set at 15% above the nominal voltage:

Model	Volts	Rated Amps
SR750x24	27.6	27.0
SR750x30	34.5	21.7
SR750x36	41.4	18.0
SR750x48	55.2	13.6
SR750x91	110	6.8
SR750x92	124	6.0
SR750x93	138	5.4

x = A or D type

MOUNTING DETAILS / DIMENSIONS



ADDITIONAL OPTIONS (Physical)

Rack mount	2U x 19" rack - (rear connection)
Wall Mount Case	Includes two MCBs and terminals

ADDITIONAL OPTIONS (Electrical)

Temperature Compensation	For accurate battery charging, temperature compensation adjusts voltages in accordance with external temperature probe Order Code: +TEMPCO
Alarms (SR750D..)	<ul style="list-style-type: none"> • Mains fail (or PSU in standby mode) • DC low (Battery low or PSU low) <ul style="list-style-type: none"> - Charger: set at 1.83V/cell (eg. 11V) - PSU: set at 83% V out (eg. 10V)
Alarms (SR750L..)	SR750D.. with extra DC fault alarm
Earth Fault Alarm	Alarm relay output when either + or - output is less than 77Kohms to earth Order Code: +EFDLV (24-50V models) +EFDHV (48-150V models)
Parallel Redundancy	Use SR750D... units and external output diodes for N+1 redundancy Refer page 118 for typical connections
DC Input	Voltage ranges: 110-180VDC 200-375VDC Please note that an external fuse is required to be fitted (by the user) on the output for short circuit protection.

MODEL CODING AND SELECTION CHART

SR750A 12 T F S L

