



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
 - Guaranteed after sales service available
 - ISO9001 design management system
- The SR100A DC power supply is a solid, reliable performer for a multitude of DC power applications up to 100W.
 - Please specify on ordering if unit is to be used for battery charging duty (except for 12V version which is set for 13.8V as standard)

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

ELECTRICAL	
Input	180V - 264VAC 45-65Hz or 200 - 375V DC (standard) 88V - 132VAC 45-65Hz or 110-180VDC (on request)
Fusing / Protection	Internal AC input fuse
Isolation	3.5KVAC 1 min. in/output, 1KV DC input/earth
Efficiency	≥ 85%
Inrush current	<30A, 1.8ms
Output Power	100W Continuous (0 - 50°C)
Output Voltages (nominal)	13.8V, 24V, 36V, 48V Other voltages by request.
Voltage adj. range	85 - 115% of Vout
Temp. Compensation (option)	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10%
Over current Protection	Constant current limit under overload and short circuit conditions
Line Regulation	<0.04% over input range
Load Regulation	<0.5% open circuit to 100% load
Noise	<0.3%
Transient response	200mV over/ undershoot, load step 20-100%, 400us settling time
Hold-up time	15 - 20 ms (nom. - max. Vin) without battery

PHYSICAL	
AC Input connector	IEC320 inlet socket (similar to PCs etc.)
DC Connections	Plug-in style socket & mating screw terminal block: (max. wire 2.5mm ² / way)
Enclosure	Zinc plated steel /powder coated lid
Indicators	Green LED for DC Power OK
Weight	0.94 Kg
Dimensions	146.5 W x 62 H x 177 D

ENVIRONMENTAL	
Operating temperature	0 - 50 °C ambient at full load De-rate linearly >50 °C to 0 load @ 70 °C
Storage temperature	-10 to 85 °C ambient
Humidity	0 - 95% relative humidity non-condensing
Cooling	Natural convection

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 DC connectors with mating screw-terminal plug	

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

SR100A...

STANDARD MODEL TABLE

MODELS	Output Voltage (factory default)	Output Current (A) (continuous)	Adjustable range (V)
SR100A12	13.8V	7.3 @13.8V (8.3 @ 12V)	11-14
SR100A24	24V	4.2	22-28
SR100A36	36V	2.8	34-43
SR100A48	48V	2.1	45-57

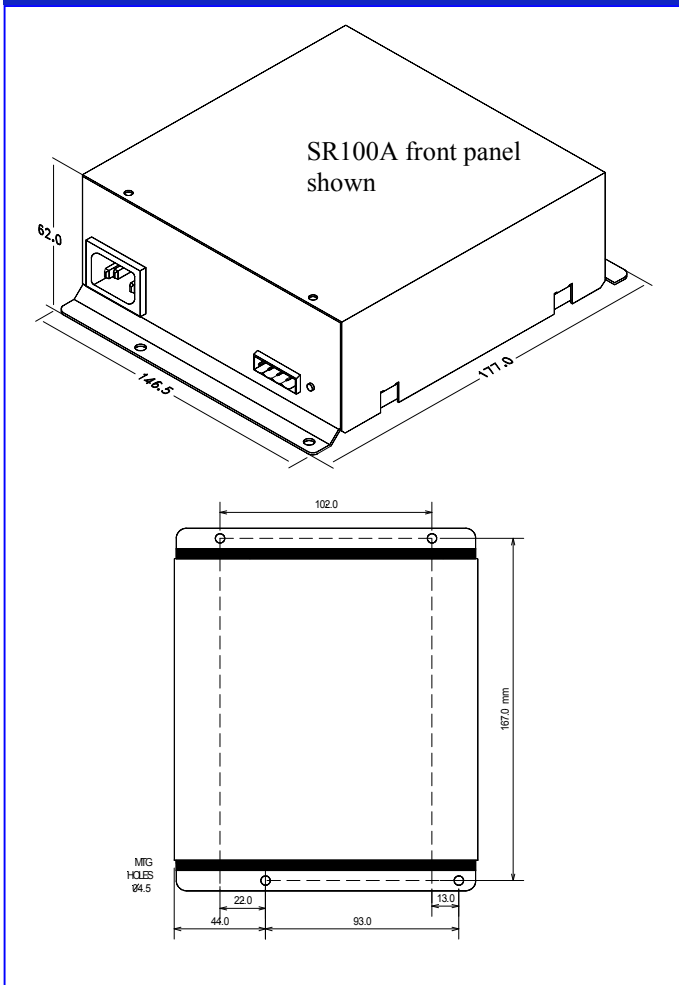
BATTERY CHARGING

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
SR100x12	13.8	7.3
SR100x24	27.6	3.6
SR100x36	41.4	2.4
SR100x48	55.2	1.8

x = A, D, L or P type

MOUNTING DETAILS / DIMENSIONS



ADDITIONAL OPTIONS (Mechanical)

Rack mount	2RU x 19" rack - (rear connection)
Wall Mount Cabinet	May be fitted into a cabinet which includes two MCBs and I/O terminals Cabinet code: SEC-SR

ADDITIONAL OPTIONS (Electrical)

Temperature Compensation	For accurate battery charging, temperature compensation adjusts voltages in accordance with external temperature probe Order Code: +TEMPCO
Alarms : SR100D	<ul style="list-style-type: none"> • Mains fail • DC low (Battery low or PSU low) <ul style="list-style-type: none"> - Charger: set at 1.83V/cell (80% Vout) - PSU: set at 83% V out
SR100L	<ul style="list-style-type: none"> • As SR100D plus extra DC alarm (eg. DC high)
• Relay Contacts	C - NO - NC full changeover rated 1A /50V DC, 32VAC
Parallel Redundancy	Use output diode for N+1 redundancy Refer page 118 for typical connections 24V & above: SR100P with alarms and internal diode 12V: use SR100D12.. and +P15 external diode

MODEL CODING

SR100A 12 T X G

Input voltage :	230V AC = blank 110V AC = G 145V DC = J
Output DC Connection:	Phoenix combicon (plug in screw terminal block) = X
Temperature Compensation	Yes = T No = blank
DC output: Nominal voltage	13.8, 24, 36, 48
Function	A = Standard unit D = Standard with mains fail & DC low alarms L = D with extra DC alarm P = D with internally fitted parallel redundancy diode (24, 48V only)
Power = 100W	