innovative energies

Global Solutions Personal Focus

SR100A

incl. SR100D, SR100P, SR100L

Ideal as a Standby Float Charger for lead acid batteries

- **Industrial quality AC/DC power supply**
- **Standalone - bench top or fixed mounting**
- **Suitable for float charging of lead acid batteries**
- **Constant current limit**
- **Precise voltage & current control**
- **Efficient switch mode design**
- **Suitable for parallel operation**
- **Optional relay alarm outputs - SR100D**
- **Optional internal diode & alarms - SR100P**
- **Optional serial communications port - SR100L**
- **Optional temperature compensation for charging**
- **ISO9001 design management system**

♦ 24 Month Warranty

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

ELECTRICAL

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

PHYSICAL

AC Input connector	IEC320 socket
DC Connections	Plug-in socket & with screw terminals
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 mm

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 1.5m with IEC320 socket & NZ/Aust. plug
DC screw terminal plug-in connector

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

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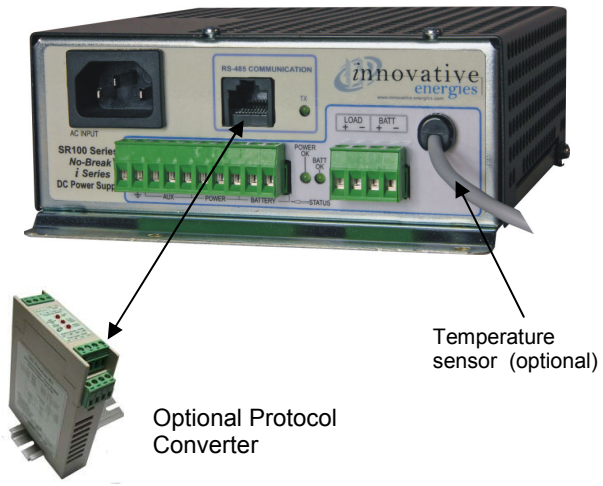
STANDARD MODEL TABLE

MODELS	Power Supply		Battery Charger*		Adjustable range (V)
	Output Volts (factory default)	Output Current (A)	Output Volts* (Charging)	Output Current (A) (Charging)	
SR100A12	13.8	7.3	13.8	7.3	11-14
SR100A24	24	4.2	27.6	3.6	22-28
SR100A30	30	3.3	34.5	2.9	27-33
SR100A36	36	2.8	41.4	2.6	34-43
SR100A48	48	2.1	55.2	1.8	45-57

*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)

OPTIONAL COMMUNICATION PORT



Available on SR100L… models:

- Three comms. options available: RS485, RS232, LAN
- With three relay alarm outputs
- *Optional* MODBUS protocol converter

CABINET OPTIONS

19"Rack mount	2U sub rack option: add **SR-RM2U**
Wall Mount Cabinet	May be fitted into a cabinet which includes two MCBs and I/O terminals Cabinet code: **SEC-SR**

ELECTRICAL OPTIONS

Temperature Compensation	For accurate battery charging, temperature compensation adjusts voltages in accordance with external temperature probe Order Code: **+TEMPCO**
Alarms : *SR100D*	• **Mains fail** • **DC low** (Battery low or PSU low) - Charger: set at 1.83V/cell (80% Vout) - PSU: set at 83% V out
SR100L	• **As SR100D plus extra DC alarm** and optional comms port
Alarm Relay Contacts	C - NO - NC changeover, rated 30VDC,2A /110VDC,0.3A/125VAC,0.5A
Parallel Redundancy	Use output diode for N+1 redundancy **24V & above:** SR100**P** with alarms and internal diode (fitted in negative leg) **12V:** use SR100**D**12.. and **+P15** external diode

MODEL CODING

SR100A12TXG-485

Optional Communications Interface Port (for SR100**L**…)	**485** = RS485 **232** = RS232 **LAN** = Ethernet (ASCII) **LAN +** = Ethernet (SNMP)
Input voltage and front Panel standby switch	230V AC no switch = blank 110V AC no switch = **G**
Output DC connector	Phoenix combicon (plug in/ screw terminal block) = **X**
Temperature Compensation	Yes = **T** No = blank
DC output: Nominal voltage	12, 24, 30, 36, 48
Function	**A** = Standard **D** = A with two alarms **P** = D with internal output diode **L** = D with extra alarm and ***optional*** comms port
Power	100W