



*Ideal as a Standby Float Charger
for lead acid batteries*

- Industrial quality AC/DC power supply
- Standalone - bench top or fixed mounting
- Front panel controls & indication
- Suitable for float charging of lead acid batteries
- Optional serial communications port, SR250L
- Optional relay alarm outputs - model SR250D,P
- Conservative design for long life
- Optional DC input
- Precise voltage and current control
- Efficient switch mode design
- Suitable for parallel operation
- 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	180-264 or 88-132V, 45-65Hz (internal link select)
- option	88-135VDC (specify at time of order if DC input required, suffix -H)
Fusing	Internal input fuse
Overcurrent Protection	Constant current limit under overload and short circuit conditions
OVP	Over-voltage protection on output at ~ 130% of nominal output voltage
Thermal Protection	Yes, self resetting
Isolation	1KV DC input - output / earth
Efficiency	≥ 85%
Inrush current	Soft start circuit
Output Power	250W
Output Voltages	Refer to model table
Voltage adj. range	85 - 115% of Vout
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 without battery

PHYSICAL	
AC Input connector	IEC320 socket
DC Connections	M6 brass stud or plug-in socket with screw terminals
Enclosure	Zinc plated steel /powder coated lid
Dimensions	150W x 61H x 242D (excl. terminals)
Weight	1.7 Kg
Indication LEDs	Standard: Power OK, Standby With alarms: DC OK, Power OK, Standby
Alarm relay output (option)	C - NO - NC changeover rated 1A /50V DC, 32VAC
Standby Mode	Turns off DC output of PSU

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	24V & above: natural convection 12V: fan cooled

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 and NZ/Aust plug	
Mating screw-terminal plug for alarm outputs	
Crimp lugs for stud terminal versions	
DC screw terminal plug-in connector for 'X' version	

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

SR250A

incl. SR250D, SR250L, SR250P

STANDARD MODEL TABLE					
MODELS	Power Supply		Battery Charger		Adjustable range (V)
	Output Volts (factory default)	Output Current (A) (continuous)	Output Volts* (Charging)	Output Current (A) (Charging)	
SR250A7.5	7.5	20	6.9	20	6.8-8
SR250A12	13.8	18.1 @13.8V	13.8	18.1	11-14
SR250A24	24	10.4	27.6	9.0	22-28
SR250A30	30	8.3	34.5	7.2	28-36
SR250A36	36	6.9	41.4	6.0	34-43
SR250A48	48	5.2	55.2	4.5	45-57
SR250A60	60	4.1	69.0	3.6	54-66

* Please specify on ordering if the unit is to be used for float charging (except for 12V model which is set at 13.8V by default).

OPTIONS	
Temperature Compensation for charging	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10% Order Code: +TEMPCO
Alarms (SR250D..)	<ul style="list-style-type: none"> Mains/PSU fail (or PSU in standby mode) DC low (Battery low or PSU low) - set at 92% of nominal voltage. Special version available: Battery low alarm operates when mains power is on, order code: SFMCT-OA v1.1
Extra DC Fault Alarm (SR250L..)	Alarm level to be specified at time of order, eg. DC high
Alarm Relay Contacts	C - NO - NC full changeover rated 1A /50V DC, 32VAC
Internal output diode (SR250P..)	Incl. alarms & output diode for N+1 redundancy, internal diode not available for 12V models.
Earth Fault Alarm (external)	Detects leakage to earth of DC output and provides relay output Order Code: +ALARM/EFDM (20-60V)
If external surge suppressor fitted	Replace end suffix -L with -M (230VAC input version) internal MOV is rated at higher voltage than external surge suppressor

OPTIONAL COMMUNICATION PORT - SR250L.... xxx

Optional temperature compensation probe

Optional Protocol Converter
+PROTOCONMB

- Includes three relay alarm outputs
- Three comms. options available: RS485, RS232, LAN
- Optional MODBUS protocol converter for use with RS485

Example of code: **SR250L12FSL-485**

MODEL IDENTIFICATION CODES

SR250A12 T F S L-485

Optional Communications Interface Port (for SR250L....) **485** = RS485 **232** = RS232 **LAN** = Ethernet (ASCII)
LAN + = Ethernet (SNMP)

Input voltage and front Panel standby switch	230V AC + switch = L 110V AC no switch = G 110V AC + switch = U 230V AC + switch + 300V MOV = M (to be used with IEOVPHVAC) 230V AC no switch = blank	110V DC + switch = H 110V DC no switch = J
Output DC Connector type:	Stud = S	Phoenix combicon (plug in/ screw terminal block) = X
Fan cooled:	With fan = F	No fan = blank
Temperature Compensation	Yes = T	No = blank
DC output: Nominal voltage	12, 24, 30, 36, 48, 60	
Function	A = Standard PSU D = Standard with alarms L = D version with extra DC fault alarm and optional comms port P = D with output diode for parallel redundancy (24V and higher only)	
Power	250W	