



2307



Optional internal V/I meter shown

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
- Suitable for parallel operation
- Conservative design for long life
- Precise voltage and current control
- Optional temperature compensation for charging
- Optional relay alarm outputs
- Optional DC input
- Optional communications port: RS232, RS485 or ethernet
- Optional protocols available: Modbus, SNMP or ASCII code

♦ 24 Month Warranty

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

ELECTRICAL

Input • standard • option	180V - 264V, 45-65Hz 88V - 132VAC 45-65Hz
Fusing	Internal input fuse
Overload protection	Constant current limit under overload and short circuit conditions (except DC input versions which have primary current limit)
Isolation	1KV DC input - output / earth
Over voltage protection	130% of nominal output voltage
Efficiency	≥ 85%
Inrush current	Soft start circuit
Output power	500W
Output voltage	Refer to model table
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
Thermal protection	Yes, self resetting
Parallel operation	Yes
- higher power	Addition of external output diodes optional
- N+1 redundancy	Use SR500D... with external output diodes

PHYSICAL

AC input connector	IEC320 inlet socket
DC connections	M8 brass stud or plug in/screw terminal block
Alarm connections	Plug-in screw terminal block
Enclosure	Powder coated steel
Dimensions	225W x 70H x 304D mm (excl. terminals)
Weight	4.3 Kg
Indication LEDs	Standard: Power OK, Standby With alarms: DC OK, Power OK, Standby
Standby switch	Turns off DC output of PSU

ENVIRONMENTAL

Operating temperature	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

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

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

SR500A

incl. SR500D, SR500L

STANDARD MODEL TABLE

MODELS	Power Supply		Battery Charger		Adjustable range (V)
	Output Volts (factory default)	Output Current (A) (41.6 @ 12V)	Output Volts* (Charging)	Output Current (A) (Charging)	
SR500A12	13.8	36.2	13.8	36.2	11-14
SR500A24	24	20.8	27.6	18.2	22- 29
SR500A30	30	16.6	34.5	14.5	28-36
SR500A36	36	13.8	41.4	12.0	34-43
SR500A48	48	10.4	55.2	9.1	45-57
SR500A60	60	8.3	69.0	7.2	56-71
SR500A91	96	5.2	110	4.5	90-115
SR500A92	108	4.6	124	4.0	111-130
SR500A93	120	4.1	138	3.6	110-145

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



Rear view of SR500D....or SR500L... with alarm contacts and no communication port option

OPTIONS

Temperature compensation for charging	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10% Order Code: +TEMPCO
Alarms - SR500D..	<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 - PSU: set at 83% V out
- SR500L..	<ul style="list-style-type: none"> As SR500D.. + DC high alarm (NB: DC OK alarm on this model indicates either DC low or DC high)
Alarm contacts	C - NO - NC changeover rated 1A /50V DC, 32VAC
DC Input	110VDC (99-150) or 220VDC (180-270) Please note that an external fuse or MCB must be fitted on the output for short circuit protection.
Earth fault alarm (external to PSU)	Detects leakage to earth of DC output and provides relay output Code: +ALARM/EFDM (20-60V) +ALARM/EFDH (61-150V)

OPTIONS

Communications Port	Choice of RS485, RS232, ethernet (SNMP or ASCII) Available on SR500L... models
Internal V/I meter	Add code: +INT-METER
Mounting options:	
19" rack mount	2U sub rack available, Code: SR-RM2U Optional V/I meter, Code: SR-METER
Wall mount enclosure	PSU may be fitted into enclosure with MCBs and terminals. Code: SEC-SR

MODEL IDENTIFICATION CODES

SR500A 12 T F S L-LAN

Optional communication port for SR500L versions	LAN = ethernet (ASCII) 485 = RS485	LAN+ = ethernet (SNMP) No = blank	232 = RS232
Input voltage and front panel standby switch:	L = 230V AC + switch U = 110V AC + switch H = 110V DC + switch	Blank = 230V AC no switch G = 110V AC no switch J = 110V DC no switch	
Output DC Connector type:	S = Stud	X = Plug in /screw terminal block	
Cooling	F = Fan		
Temperature Compensation	T = Yes	Blank = No	
DC output: Nominal voltage	12, 24, 36, 48, 91 = 96V, 92 = 108V, 93 = 120V		
Function	A = Standard PSU/Float Charger D = A version with alarms L = D version with DC high alarm and optional comms port		
Power	500W		

Specifications are subject to change without prior notice.