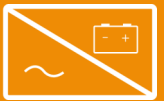




3 Relay Alarms



Float Charger

SR500HL Series 500W Industrial DC Power Supply/Float Charger



POINTS OF DIFFERENCE

- Ideal as a standby float charging for lead acid batteries / Standalone PSU
- Constant current limit and precise voltage control
- Temperature compensation option (Required when charging batteries)
- Efficient modern "current mode"
- Relay Alarms Output (High voltage, low voltage, mains or PSU fail)
- Suitable for parallel operation - N+1 Redundancy
- Rugged design and construction for long life and challenging environments
- Output Voltage from 12V to 48VDC. For 110VDC output voltage models check out the [SR500L](#)

APPLICATIONS

- Security - Access Control
- Industrial Processes
- Switching & Protection
- SCADA
- Radio Repeaters - Remote Sites
- Automation Processes

SERIES TABLE

MODELS	DC Power Supply		Battery Charger*		Adjustable range (V)
	Output Volts (factory default)	Output Current (A) (continuous)	Output Volts* (Charging)	Output Current (A) (Charging)	
SR500HL12	13.8V	36.2A (41.6 @12V)	13.8V	36.2A	11-14V
SR500HL24	24V	20.8A	27.6V	18.2A	22-29V
SR500HL30	30V	16.6A	34.5V	14.5A	28-36V
SR500HL36	36V	13.8A	41.4V	12A	34-43V
SR500HL48	48V	10.4A	55.2V	9.1A	45-57V

*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)

GENERAL SPECIFICATIONS

Output power	500W (0-50°C)
Input Voltage	180V - 264VAC 45-65Hz 88V - 132VAC 45-65Hz (Optional)
Output Voltages	13.8V, 24, 30V, 36V, 48 V Other voltages by request
Voltage Adj. Range	85% - 120% of Vnominal
Fusing/ protection	Input fuse and Varistor
Overcurrent protection	Constant current limit under overload and short circuit conditions
Isolation	Input – earth – 2.5KVdc Output – earth - 500Vdc
Efficiency	> 85%
Inrush Current	Soft start circuit
Operating temperature	-20 to 50 °C ambient at full load
Humidity	0 - 95% relative humidity non - condensing
OVP	Over-voltage protection on output at 130% of nominal output voltage
Cooling	Dual Fan Cooled
LED Indication	Green: DC OK Green: Power OK Flash code for different operating states
Alarms Relay	Form C contacts changeover, rated 30VDC,2A/110VDC,0.3A/125VAC,0.5A 30VDC, 2A/110VDC, 0.3A, 125VAC, 0.5A DC High (Fan fail/stall (toggle every 5 sec)) POWER (mains fail, PSU fail) DC Low
Line Regulation	<0.2% over AC input range
Load Regulation	<0.4% open circuit to 100% load
Noise	<1%

OPTIONAL FEATURES



Remote Monitoring



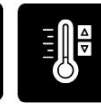
Digital Meter



Digital I/O



Redundancy



Temperature Compensation



DC Connectors

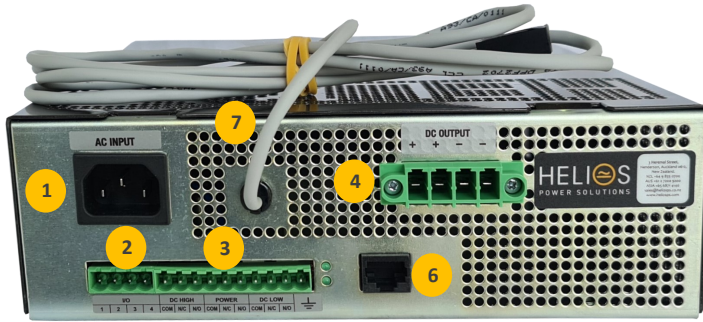
OPTIONS

Optional Input Voltage	88 - 132 VAC
Optional DC Input Voltage	110VDC (88V – 135VDC)
Communication Options	RS232 (ASCII)
	RS485 (ASCII)
	Modbus RTU
	SNMP, Webpages
Digital Inputs/Outputs	Digital Input (pins 1,2) / Input or Output (pin 3) / Return (pin 4)
Temp. Compensation	Temperature sensor on 1.7m lead with adhesive pad: -4mV / °C / cell ±10%
Internal Meter	Internal V/I meter displaying PSU operating states and analogue
Mounting	Standalone
	19" Rack Mount - Optional V/I meter for sub-rack : SR-Meter
N+1 Redundancy	Using 2 chargers each with its own battery & output diodes
Conformal Coating	For harsh environments

STANDARDS

EMC	To CISPR 22 / EN55032 class A
Safety	To IEC950 / EN60950 / AS/NZS3260

BACK PANEL



Phoenix Connectors Option

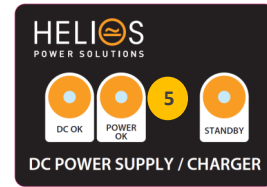


Anderson Connectors Option



M8 brass stud Option

FRONT PANEL



Front Panel with Internal Meter (optional) add code **+INT-METER**

1. AC INPUT IEC60320—C13
2. Digital Inputs (pins 1,2)/ Input or Output (pin 3)/ Return (pin 4)
3. Alarm Relay Form C (DC High , Power OK , DC Low)
4. DC Outputs (Plug-in style phoenix connector shown)
5. LED indications DC OK and Power OK & Standby
6. Comms Port (optional)
7. Temperature Compensation Sensor 1.7m (optional)

PHYSICAL

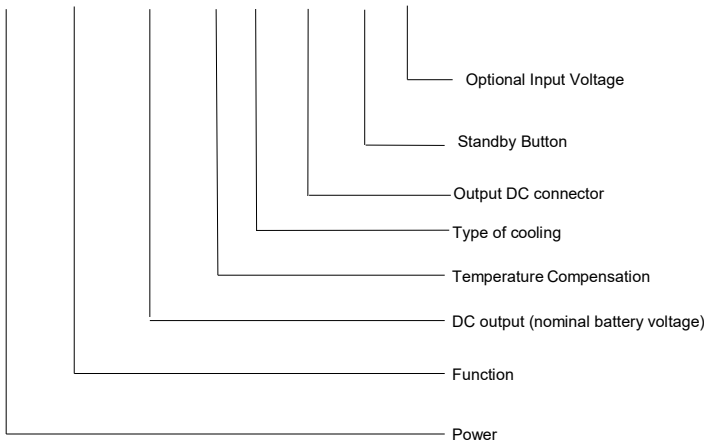
AC input connector	IEC60320— C13 10A input socket (similar to PCs etc)
DC Connections	<ul style="list-style-type: none"> • M8 brass stud • Plug-in style phoenix socket & mating screw terminal • Anderson plug-in style connectors
Alarm connections	Plug in screw terminal block
Enclosure	Zinc plated & powder coated steel
Dimensions	225W x 304D x 70H (± 1mm)
Weight	3.85 Kg

ACCESSORIES SUPPLIED

Mounting feet together with screws
AC power cord 1.5 m with IEC60320 socket & AUS/NZ plug
Mating screw terminal plug for DC output
Mating screw terminal plug for alarms

MODEL CODING AND SELECTION CHART

SR500HL 12 T F X L DC - 485+



Optional Interface Port

485 = RS485 232 = RS232 LAN +=SNMP-Webpages 485+=Modbus RTU

DC = 90-135VDC input (blank = AC input) **U** = 110VAC optional input voltage

Turns output on/off

X = Pluggable connector **S**= Stud **A**= Anderson connectors

F = Fan

T = Yes

7.5 , 12, 24, 30, 36, 48VDC

HL = DC PSU/charger - 2 terminal output

Hi = **No-Break™** DC UPS - 3 terminal output (separate battery output)(See separate datasheet)

500W