HELIOS
POWER SOLUTIONS
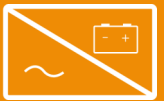QUALITY POWER SOLUTIONS BACKED UP BY REAL-WORLD ENGINEERING EXPERIENCE

3 Relay Alarms   **Float Charger**

SR750HL Series 750W 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
- Thermal reliability improved by using double fan cooling system
- Rugged design and construction for long life and challenging environments
- Output Voltage from 12V to 48VDC. For 110VDC output voltage models check out the SR750L

APPLICATIONS

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

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)	
SR750HL12	13.8V	54A (54A @11-14V)	13.8V	54A	11-14V
SR750HL24	24V	31.2A	27.6V	27A	22-29V
SR750HL30	30V	25A	34.5V	21.7A	28-36V
SR750HL36	36V	20.8A	41.4V	18A	34-43V
SR750HL48	48V	15.6A	55.2V	13.6A	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	750W (0-50°C)
Input Voltage	180V - 264VAC 45-65Hz 88V - 132VAC 45-65Hz (Optional)
Output Voltages	13.8V, 24, 30, 36, 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
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%
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 DC High 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**

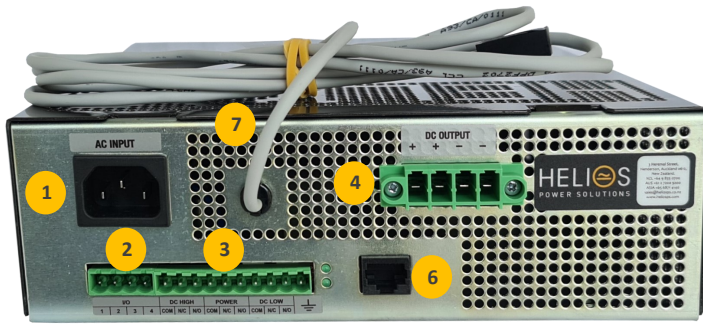### OPTIONS

Optional Input Voltage	88 - 132 VAC
Optional DC Input Voltage	110VDC (88V – 135VDC) Please note that an external fuse or MCB must be fitted on the output for short circuit protection.
Communication Port	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 subrack : 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

FRONT PANEL

Phoenix Connectors Option

Front Panel with Internal Meter (optional)

Anderson Connectors Option

M8 brass stud Option

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)
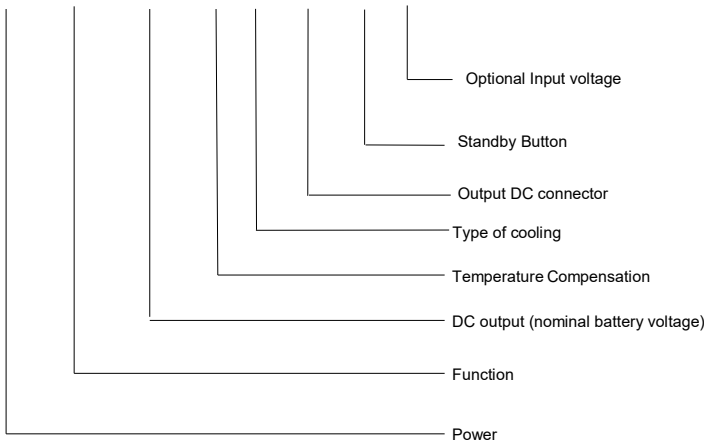
PHYSICAL

AC input connector	IEC60320— C13 10A input socket (similar to PCs etc)
DC Connections	• 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

SR750HL 12 T F X L U - 485+

Optional Interface Port

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

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

Standby Button — Turns output on/off

Output DC connector — **X** = Pluggable connector **S**= Stud **A**= Anderson connectors

Type of cooling — **F** = Fan

Temperature Compensation — **T** = Yes

DC output (nominal battery voltage) — **7.5 , 12, 24, 30, 36, 48VDC**

Function — **HL =** DC PSU/charger - 2 terminal output
Hi = *No-Break*™ DC UPS - 3 terminal output (separate battery output)(See separate datasheet)

Power — **750W**