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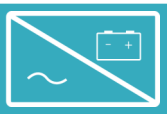
QUALITY POWER SOLUTIONS BACKED UP BY REAL-WORLD ENGINEERING EXPERIENCE

3 Relay Alarms


Float Charger

SR100HL Series 100W Power Supply/Float Charger

POINTS OF DIFFERENCE

- Ideal as a standby float charging of lead acid batteries
- Constant current limit and Precise voltage control
- Temperature compensation option
- Efficient modern "current mode"
- Relay Alarms Output
- Suitable for parallel operation
- Rugged design and construction for long life and challenging environments

APPLICATIONS

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

SERIES TABLE

MODELS	Power Supply		Battery Charger*		Adjustable range (V)
	Output Volts (factory default)	Output Current (A) (continuous)	Output Volts* (Charging)	Output Current (A) (Charging)	
SR100HL12	13.8	7.3	13.8	7.3	11-14
SR100HL24	24	4.2	27.6	3.6	22-28
SR100HL30	30	3.3	34.5	2.9	27-35
SR100HL36	36	2.8	41.4	2.6	34-43
SR100HL48	48	2.1	55.2	1.8	45-57

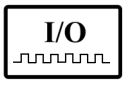
*Please specify on ordering if unit is to be used for battery charging duty (except for 12V version which is set for 13.8V as standard)

GENERAL SPECIFICATIONS

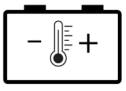
Output power	100W (0-50°C)
Input Voltage	180V - 264VAC 45-65Hz 88V - 132VAC 45-65Hz
Output Voltages	13.8V, 24, 30V, 36V, 48 VDC Other voltages by request
Voltage Adj. Range	85% - 120% of Vnominal
Frequency	45-65Hz
Overcurrent protection	Constant current limit under overload and short circuit conditions
Isolation	Input – earth – 2.5KVdc Output – earth - 500Vdc
Efficiency	> 85%
Inrush Current	< 30A , 1.8ms
Operating temperature	-20 to 50 °C ambient at full load
Humidity	0 - 95% relative humidity non - condensing
Cooling	Natural convection
LED Indication	Green: DC OK Green: Power OK
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	<0.04% over input range
Load Regulation	<0.5% open circuit to 100% load
Noise	<0.3%
Transient response	200mV over/undershoot, Load step 20-100%, 400us settling time
Hold-up time	15-20 ms (nom-max. Vin) without battery

OPTIONAL FEATURES

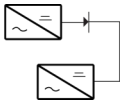

Comms



Digital I/O



Tempco


N+1 Redundancy

OPTIONS

Optional DC Input Voltage	DC Input available on request
Communication Port	• RS232 (ASCII) • RS485 (ASCII) • Modbus RTU • SNMP V1, 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%
Mounting	• DIN Rail • 19"Rack Mount - Optional V/I meter for subrack : SR-Meter • Wall Mount Cabinet
N+1 Redundancy	Using 2 chargers each with its own battery
Boost Charger	Customizable feature on request
Conformal Coating	For harsh environments

STANDARDS

EMC	To CISPR 22 / EN55022 class A
Safety	To IEC950 / EN60950 / AS/NZS3260

HELIOS
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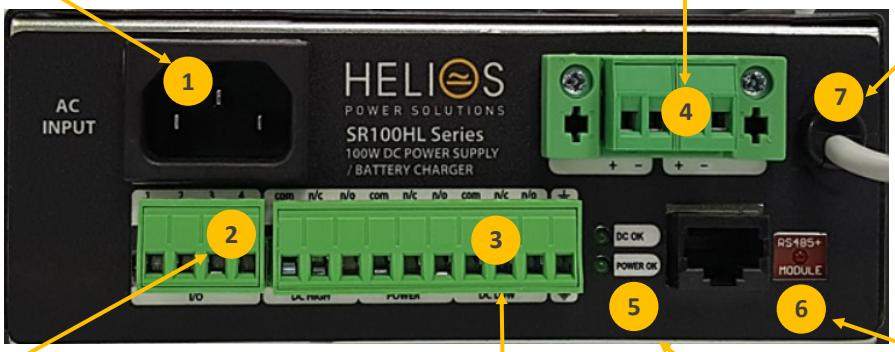
FRONT PANEL & LAYOUT

1. AC INPUT IEC60320—C13

4. DC Outputs

7. Tempco Sensor (optional)



2. Digital Input (pins 1,2) / Input or Output (pin 3) / Return (pin 4)

3. Alarm Relay Form C (DC High, Power, DC Low)

5. LED indications DC OK and Power OK

6. Comms Port (optional)

PHYSICAL

AC input connector	IEC60320— C13 10A input socket (similar to PCs etc)
DC Connections	Plug-in style socket & mating screw terminal block: (max. wire 2.5mm² / way)
Alarm connections	Plug in screw terminal block
Enclosure	Zinc plated & powder coated steel
Dimensions	147W x 177D x 62H (±1 mm)
Weight	0.95 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

SR100HL 12 T X P - 485+

Optional Interface Port

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

Diode — **P=** Internal output diode **Blank =** no diode

Output DC connector — **X** = Pluggable connector

Temperature Compensation — **T** = Yes Blank = No

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

Function — **HL** = DC PSU/charger - 2 terminal output

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

Power — **100W**