



3 Relay Alarms



Float Charger



Tempco



LVD

QUALITY POWER SOLUTIONS BACKED UP BY REAL-WORLD ENGINEERING EXPERIENCE

## SR750HI Series 750W DC UPS

### POINTS OF DIFFERENCE

- Separate outputs for load and battery with No-break switching between charger and battery
- Battery detection—regular battery presence and battery circuit integrity checks
- Automatic temperature compensated output voltage (customizable)
- Battery deep discharge protection with low voltage disconnect
- Power loss & battery system alarms through relays and LED indication
- Different output connector models : studs, phoenix & Anderson connectors
- Rugged design and construction for long life and challenging environments
- Thermal reliability improved by using double fan cooling system



### APPLICATIONS

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

SERIES TABLE

Model	Output (V)	PSU Rated (A)	Charge Limit (A)*1	Recommended Load (A)	Peak Load on Power Fail (A)
SR750HI12	13.8V	54A	54A	40A	59A
SR750HI24	27.6V	27A	27A	20A	30A
SR750HI30	34.5V	21A	21A	15A	23A
SR750HI36	41.4V	18A	18A	13A	20A
SR750HI48	55.2V	13.5A	13.5A	10A	15A

\*Default is 100% PSU rated (A), can be customizable

### GENERAL SPECIFICATIONS

Output power	750W
Input Voltage	180V-264VAC 88V-132VAC (on-request)
Output Voltages	12V, 24V, 30V, 36V, 48V
Voltage Adj. Range	85% - 120% of Vout
Frequency	45-65Hz
Fusing/Protection	Input fuse and varistor Battery fuse plus ECB for battery circuit
Overcurrent protection	Constant current limit under overload and short circuit conditions
Isolation	Input – earth – 2.5KVdc / Output – earth - 500Vdc
Efficiency	> 85%
Noise	<1%
Operating temperature	-20 to 50 °C ambient at full load
OVP	Over-voltage protection on output at ~130% of nominal output voltage
Humidity	0 - 95% relative humidity non - condensing
Cooling	Fan cooled ( 2 fans)
LED Indication	Green: Batt OK Green: Power OK Flash code for different operating states
Alarms Relay	Form C contacts 30VDC,2A/110VDC,0.3A,125VAC, 0.5A <b>AUX</b> (Activated by BCT, Fan fail/stall (toggle every 5 sec)) <b>POWER</b> (main fails, PSU fails) <b>BATTERY</b> (batt missing , batt low, BCT fail)
Temp. Compensation	Temperature sensor on 1.7m lead with adhesive pad: -4mV/ °C / cell ± 10% (customizable)
Battery Charge Current Limit	Customizable on request.
Battery Monitoring	Detects for presence of battery on start up, then every 60 minutes when charge current < 200mA
Battery Circuit Protection	Electronic circuit breaker (ECB) operates under the following conditions: <b>Low Battery Volts:</b> Battery Voltage drops to 1.67V/cell <b>Overload:</b> Max load must not exceed 110% of rated current. Peak loads must be connected to B+ & B– terminals. <b>Short Circuit:</b> <2ms, backed up by fuse

### OPTIONAL FEATURES



Remote Monitoring



Digital Meter



Digital I/O



Redundancy



Rack Mounting



DC Connectors

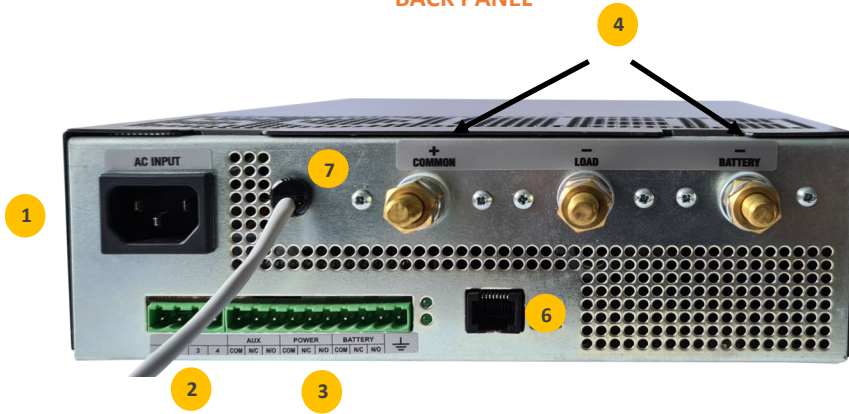
Input Voltage	88 - 132VAC
DC Input Voltage	110VDC (88V –135VDC)
Communication Options	· RS232 (ASCII) · RS485 (ASCII) · Modbus RTU · SNMP, Webpages
Digital Inputs/Outputs	Digital Input (pins 1,2) / Input or Output (pin 3) / Return (pin 4)
Battery Condition Test (BCT)	Option auto test enabled on start-up
Mounting	· Standalone · 19" Rack Mount . <i>Optional V/I meter for subrack : SR-Meter</i> · Wall - Floor Mount Cabinet
Internal Meter	Internal V/I meter displaying PSU operating states. Add code <b>+INT-METER</b>
N+1 Redundancy	Using 2 chargers & output diodes
Boost Charger	Customizable feature on request for boost charging capabilities
Conformal Coating	For harsh environments

OPTIONS

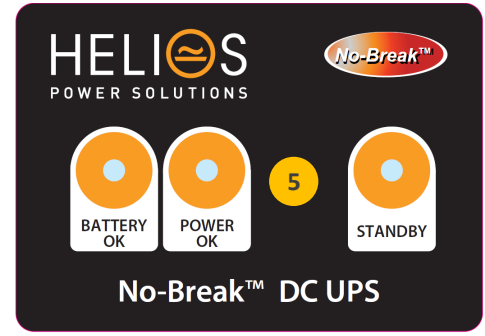
STANDARDS

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

## BACK PANEL



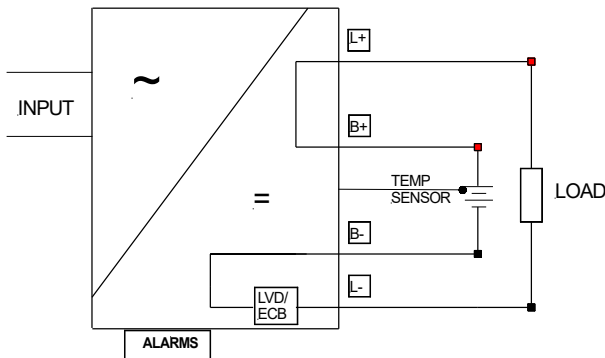
## FRONT PANEL



Front Panel with Internal Meter (optional)

1. AC INPUT IEC60320 - C13
2. Digital Inputs (pins 1,2)/ Input or Output (pin 3)/ Return (pin 4) (Optional)
3. Alarm Relay Form C (Aux, Power & Battery)
4. Load & Battery M8 stud connection
5. LED Indications ( Battery OK, Power OK and Standby)
6. Comms Port (optional)
7. Temperature Compensation Sensor

## SCHEMATIC BLOCK DIAGRAM



## PHYSICAL

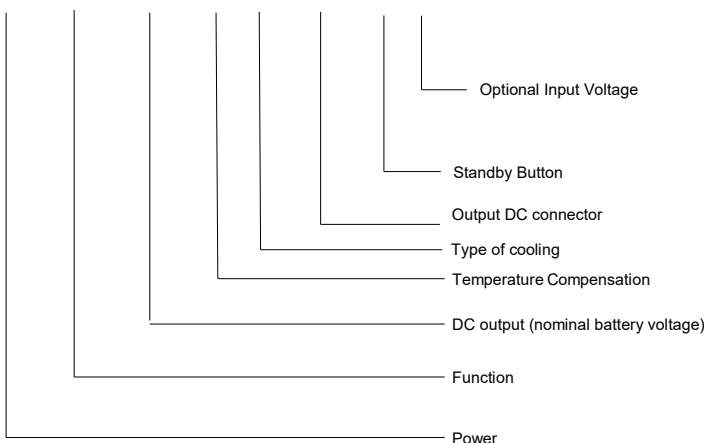
<b>AC input connector</b>	IEC60320— C13 10A input socket (similar to PCs etc)
<b>DC Connections</b>	<ul style="list-style-type: none"> <li>• M8 brass stud</li> <li>• Plug-in style phoenix socket &amp; mating screw terminal</li> <li>• Anderson plug-in style connectors</li> </ul>
<b>Alarm connections</b>	Plug in screw terminal block
<b>Enclosure</b>	Zinc plated & powder coated steel
<b>Dimensions</b>	225W x 340D x 70H (± 1mm)
<b>Weight</b>	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

**SR750HI 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

**12, 24, 30, 36, 48VDC**

**HL** = DC PSU/charger - 2 terminal output ( see separate datasheet)

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

**750W**