



- Integrated battery management system.
- Designed for street cabinet applications.
- Non latching thermal protection.
- 10A output with separate 4A charging facility.
- Output voltage adjustable from 54V to 58V DC.
- Automatic and remote controlled battery condition testing.
- Comprehensive range of management alarms.

Specification	
Input Voltage	230VAC, +15% - 10% Single Phase
Input Frequency	47 to 63Hz
Emissions/Immunity Standards	EMC meets requirement of EN50081-1 & EN50082-1
Inrush Current	15A Typical
Output Voltage	54V to 58V (adjustable by potentiometer)
Output Current Range	0-10A at 56V
Output Regulation	Load +/- 1%, Line +/- 0.2% In battery mode the output will be equal to the battery voltage, less 0.5V
Output Noise & Ripple	100mV peak to peak, up to 20 MHz
Battery Charging Current	4A DC
Efficiency	>85% at full load
Operating Temperature	-20°C to +65°C
Temperature Coefficient	0.02% per °C

### Protective Features

If ambient temperature exceeds 65°C the power supply is protected by a non-latching thermal cut-out.

Insulation - Input to Chassis	1500Vrms	Insulation - Output to Chassis	100Vrms
Insulation - Input to Output	3750Vrms	Insulation - Output to Output	100Vrms
Safety Standards	Meets BSEN60950, LVD Compliant, CE marked.		
Current Limit	Trip and restart, 20A +/- 1A		
Overvoltage Protection	Trip and restart, 64V +/- 1V		
Low Battery Disconnect	42.5V +/- 0.5V		
Auto Battery Test Feature	The power supply will automatically load check the battery condition approximately every 20 days (or longer if required) for approximately 20 minutes to establish that the battery is 'good'. If the battery voltage is below 47 volts, alarm 4 will operate.		

### Alarms

The following 6 alarms are isolated and have a pair of contacts that can be factory configured open or closed in normal operation.

Alarm 1: Input Mains Good	Alarm 2: Output Voltage Good	Alarm 3: Power Supply Good
Alarm 4: Battery Good	Alarm 5: Alarms 1 to 4 in Series	Alarm 6: Thermal Cut Out

### Alarm Indicators

Alarms 1 to 4 - Four Green LED's

### Output Current Indicator

LED display of total output current (including battery charging current) in 2A increments to 16A.

### Mechanical Specification

Mains Input	IEC 320 connector with 10A fusing
Size	19" rack x 2U high x 240mm deep
Weight	6kg
Specification Note:	For any requirements not specified above, please contact the sales department.

- The SP1470 series has been specifically designed to reliably withstand the very high and low temperatures experienced in street cabinets.
- The battery management system enhances the life of the batteries by controlling the charging current and avoiding deep discharge.
- Regular battery test loading monitors battery health without risk of system failure.