

# SBL1K5-110FTSA-P9200

AC/DC Power Supply 230VAC to 110VDC 13A



## Product description:

The unit is a heavy-duty industrial converter suitable for a wide range of applications. The use of components with many years of established reliability results in high MTBF. The package is a standard FF6 with clear mounting holes. Output separation diode and alarm is installed for battery charging or parallel applications.

**Special Features:** Output adjustable 108-125V, redundancy diode, Alarm, Conformal coating

## SPECIFICATIONS

### Input Voltage

230Vac  $\pm$ 15%,

47 - 63Hz

Input Current 15Arms max. at 195Vac

### Input Protection

Inrush current limiting

Varistor

Internal safety fuse

Lower voltage than the specified minimum input will not damage the unit

### Isolation

2250Vdc input to chassis

4300Vdc input to output

8mm spacing

1000Vdc output to chassis

### Standards

Designed to meet EN 60950-1 and related standards

### EMI

EN55022 Class A

### Switching Frequency

55kHz  $\pm$ 3kHz

### Output Voltage/Current

110Vdc/13A continuous

Adjustable: 108-125Vdc

Output is floating, either side can be grounded

### Redundancy diode

Installed internally

### Line/Load Regulation

$\pm$ 1% combined including output redundancy diode

### Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

### Output Ripple/Noise

Better than 100mVrms and 500mV peak to peak, (20MHz BW)

### Output Overload Protection

Current limiting with short circuit protection

Self-resetting thermostat for thermal protection

Current Limit: 15A  $\pm$  1.5A

### Output Overvoltage Protection

Double regulator loop

OVP setting: 140V  $\pm$  5V

### Efficiency

85% at full load

### Operating Temperature Range

0 to 50°C for full specification by installing unit on heatsinking surface

### Temperature Drift

0.03% per °C over operating temperature range

### Cooling

By built-in fans and conduction by installing unit on heat-sinking surface (chassis or cabinet wall) and convection via cooling slots.

### Environmental Protection

Basic ruggedizing

Conformal coating

### Shock/Vibration

IEC 61373 Cat 1 A&B

### Humidity

5-95% non-condensing

### MTBF

140,000 hours @45°C

Demonstrated MTBF is significantly higher

### Indicators

None

### Control Input

None

### Alarm Output

Form C contact for unit failure

### Package / Dimensions (WxHxL)

FF6: 235.7 x 64.77 x 349.25mm;

(9.28" x 2.55" x 13.75") including

mounting flanges and terminal block.

Mounting holes are clear.

### Weight

3.4kg (7.5 lbs)

### Connections

Input: barrier-type terminal block, 3-pole 1/2" spacing

Output/Alarm: terminal block, 12-pole 3/8" spacing

### RoHS Compliance

Not required, but accepted

### Warranty

Twelve months subject to application within good engineering practice

## Terminal Block Pin-out

DC OUTPUT (Adjustable)									ALARM			AC INPUT		
+	+	+	+	NOT USED	-	-	-	-	FAIL OPEN	COM	FAIL CLOSED	GND	N	PH
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3