

HBL1K SERIES

AC/ DC Single Output: 1000 watts



Specifications:

Input Voltage	115 / 230VAC ±15% (Link Selectable)
Input Frequency	47 ~ 63Hz
Efficiency	Model dependant, typically 80%
Input Protection	Inrush current limiting Internal fuse
Output Voltage	Any voltage from 24 ~ 130vdc
Voltage Adjustment	±10%
Output Current	38A maximum
Output Power	1000 watts maximum
Ripple & Noise	Typically 1% pk-pk or 0.2% RMS
Load Regulation	±1.5%
Line Regulation	±1.0%
Temp Coefficient	0.03% per °C
Hold Up Time	10mS for 5% voltage drop
Switching Frequency	55kHz for the dc/dc section
Overcurrent Protection	Rectangular Current limiting with auto recovery, set at approximately 110% of rated output
Overvoltage Protection	Second regulator loop, set at approx 120% of output voltage setting. Recycle AC input after 1-2 minutes to restart.

Features

- Very rugged design
- Conduction / convection cooling, no fans
- 900 ~ 1000 watt output power
- Full electronic protection
- Input – Output isolation 4300VDC
- Suitable for use in a wide range industrial applications
- Suitable for use as a combined power supply / battery charger
- Output option from 24V to 130VDC
- **N+1** Redundancy option
- Output alarm option
- Extensive Ruggedizing and Conformal coating of PCB's for harsh environments - option

Thermal Protection	Thermal shutdown in case of insufficient cooling, with auto restart.
Remote Sense	Not available
Parallel Operation	Optional with N+1 redundancy (>48V output only)
Operating Temp.	0°C to +50°C (extended operation option)
Humidity	85% RH (non-condensing)
Isolation Voltage	Input-Output: 4300vdc Input-Chassis: 2250vdc Output-Chassis: 500vdc
Vibration	5-10Hz, 10mm double amplitude, 20 minutes period each along X,Y,Z axis
Shock	294m/s ²
Cooling	Conduction / Convection cooled
EMI	Conducted EN55022 class A
Connector	Screw terminals or Stud terminals depending on output current.
Indicator	N/A
Alarm	Optional
MTBF	160,000hrs
Dimensions	352 x 210 x 67mm, includes terminals -F6 package
Weight	3.2kg

Model	Output		Power W
	V	A	
HBL1K-24	24V	38A	900W
HBL1K-28	28V	32A	900W
HBL1K-48	48V	21A	1000W
HBL1K-56	56V	18A	1000W
HBL1K-110	110V	9A	1000W
HBL1K 125	125V	8.0A	1000W

Note:

1. Final part number will be factory allocated to reflect output voltage and other options.
2. Other outputs on request, consult office

