

dB-2348 HV to LV Converter



**1500 VDC Input
10 VDC Output @ 43Amps**



The dB-2348 is a HV-DC to LV-DC converter with an output power of 430 watts at 10 VDC. The input voltage operates in the range of 1270 VDC to 1500 VDC. This unit features built-in overcurrent and undervoltage protection to ensure reliable operation and protect the power supply from damage. This compact, lightweight, conduction-cooled power supply is designed to operate in extreme military environments.

Features

- Up to 1500 VDC input
- 10 VDC output @ 43 Amps
- Qualified airborne use

Applications

- Decoy for airborne platforms

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Electrical

Output Voltage	+10VDC
Max Current	43 amps
Voltage Ripple	100mVrms max.
Voltage Regulation	3% max. voltage variation over Line, Load, and Temperature
Bias Output	-2VDC @ 1A
Ripple (Bias Output)	30mVrms max.
Auxiliary Supply	+5VDC @ 100mA

Prime Power

Input Voltage	+1270 to +1500VDC at a maximum current of 350mA
Efficiency	85% Typical

Mechanical

Weight	1.10 lbs nominal
Dimensions	5.4" (L) x 2.3" (Dia.)
Cooling (Operational)	Conduction to ambient maintained between -40°C and +72°C

Environmental

Altitude	Up to 50,000 feet
Operating Temperature	-40°C to +72°C
Storage Temperature	-54°C to +85°C
Vibration	Random vibration from 10 to 2000 Hz @ ± 10 Grms
Shock	15g, 11 ms
Humidity	Up to 95% RH, +25°C to +85°C, no condensation

Protection

Output	Over current, over voltage
Input	Under voltage

Specifications subject to change without notice.

Reliability by Design®

dB

About dB Control

Established in 1990, dB Control Corp., a subsidiary of the Electronic Technologies Group (ETG) of HEICO Corp., supplies mission-critical, often sole-source, products worldwide to military organizations, as well as to major defense contractors and commercial manufacturers. dB Control designs and manufactures reliable highpower TWT Amplifiers (TWTAs), microwave power modules (MPMs), transmitters and power supplies with modulators for radar, electronic countermeasures (ECM) and data link applications. The company's high-power amplifiers use solid state, as well as vacuum electron devices and cover the 1 to 50 GHz frequency range. The modularity of dB Control's designs enables rapid configuration of custom products for a variety of platforms, including groundbased and high-altitude military manned and unmanned aircraft. dB Control has an outstanding record of successfully repairing, refurbishing and replacing tightly packaged high-voltage transformers, assemblies and power supplies. The company offers specialized contract manufacturing, transformer winding and testing, full vacuum encapsulation, pressure cure, conformal coating and repair depot services from its modern 40,000 square foot facilities in Fremont, California. www.dBControl.com

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