

# dB-8064 Solid State Power Amplifier



**GaN Solid State Power Amplifier**  
**100W CW 32.0 – 38.0 GHz**

The dB-8064 is a GaN Solid State Power Amplifier operating in the frequency range of 32 to 38 GHz providing up to 100 Watts at. The power supply topology uses proprietary low-noise, high-efficiency designs to operate the RF signal path. An embedded micro-controller provides the interface, control and protection functions and status indication for the Amplifier. Standard interface protocol for remote operation is Ethernet. Other protocols such as RS-232, RS-422, RS-485, CANBUS or custom interfaces are available as options. The SSPA is packaged in a 19" rack mount package with a LCD screen display. Cooling of the SSPA is accomplished by integral forced air-cooling arrangement.

## Features

- Wideband GaN SSPA
- 32.0 to 38.0 GHz, 100 W, CW
- 220 VAC
- Integral Forced Air Cooling
- Rackmount
- Instant On (No Warm-Up)

## Applications

- Electronic countermeasures (ECM)
- Electronic warfare (EW) and simulations
- Multi-band communication systems



dB-8064 Datasheet

# dB-8064 Solid State Power Amplifier Specifications

**Reliability by Design®**

## Electrical

Frequency Range	32.0 to 38.0 GHz
Output Power CW	100 watts, 32 - 38 GHz
Small Signal Gain	52 dB
RF Input Power for Saturation	-1 to +5 dBm
Duty Cycle	100% (CW)
Input VSWR	2.0:1, max.
Output VSWR	2.0:1, max.
Load VSWR	1.5:1, max. Full Spec Compliance
Load VSWR	3.0:1, max. No Damage
Prime Input Voltage	220 VAC, 1 phase, 60 Hz
Prime Power	1600W max (1400W typical)
Interface Control	Ethernet
Pulse Modulation	50ns Rise and Fall

## Mechanical

Dimensions	5.25" H x 18.0" L x 19.0" W (inches) 133.35 H x 457.2 L x 482.6 W (mm)
Weight	45 lbs (20.41 kg)
Cooling	Built in forced air cooling
Connectors:	
Prime Power	MS3112E-14-5P
Control/Status	RJ-45 Ethernet
RF Input	2.92mm
RF Output	WR28

## Environment

Ambient Temperature	-10° C to +40° C
Storage Temperature	-30° C to +75° C
Operating Altitude	Up to 10,000 feet ASL
Shock & Vibration	Normal transport

## Options

Prime Input Voltage	110 VAC 3 phase 400 Hz
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Specifications subject to change without notice.



## 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 high-power 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 ground-based 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](http://www.dBControl.com) AS-9100D and ISO-9001:2015 Certified.



dB Control Products

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