

Visionpower BGTI Series Mil-Spec Power Supply

**Multi Output, +5V, -5V, +12V outputs,
up to 40W total continuous rating.**

**MIL-STD-1275B,
DEF-STAN 61-5 (Part 6) Compliant**

EMC to DEF-STAN 59-41 (Part 3)

**Wide operating temperature range,
-46°C to +75°C**

High efficiency up to 90%

High Reliability, MTBF > 100,000 hrs at +75°C

**Nuclear Hard, including Nuclear Event Detect Input
& Output Circumvention Circuit.**



INPUT

Input Voltage	28V Nominal
Input Voltage Range	17 to 31V
Input Surge Voltage	100V for 50ms

OUTPUTS

+12V	up to 2.75A
+5V	up to 1A
-5V	up to 1A
Output Tolerance & Regulation	+/-4%
Output Ripple	+12V: 250mVpk-pk +5V: 100mVpk-pk -5V: 100mVpk-pk
Efficiency	>85%
Protection	Short circuit protection on all outputs.

ENVIRONMENTAL

Operating temperature range	-46°C to +75°C
Storage temperature range	-46°C to +80°C
Vibration	DEF-STAN 07-55 tests A2, A3 & A5
Shock	DEF-STAN 00-35, part 3, Test M3, 50g, 6ms duration, ½ sine pulse
Bump	DEF-STAN 00-35 Part 3, Test M12, 25g, 6ms duration

GENERAL

Dimensions	Open frame PSU, 120 x 70 x 25mm, Designed for integration into customer's system.
Input Connector (28V unfiltered supply)	Molex 30-way miniature p/n: 52435-3091
Output Connector 1 (filtered/surge-protected +28V input supply available to user)	Molex 30-way miniature p/n: 52435-3091
Output Connector 2 (Provides +12V, +/-5V Outputs)	Molex 30-way miniature p/n: 52435-3091
Workmanship	IPC-A-610

Special Notes (consult factory):

- 1) Custom output configurations available.
- 2) PSU can be mechanically packaged in other custom configurations including a suitable mechanical enclosure.