



B-Power 270VDC/400Hz Dual Output Converter



BG-270VDC-72kW-V

The B-Power line of 270VDC and 400HZ aviation power supplies are not the only power supply of its type in the industry but they are the most sought after, purchased and commissioned for operations where reliability is not only expected but required.

The B-Power unit is the third and latest generation of aviation power supply from B GSE Group using our unmatched military operational experience with the industries most advanced technology.

PERFORMANCE

270 VDC

- Meets F-35 Ground Electrical Power Interface Document 2ZEU00004, Rev-0007
- Meets and Exceeds MIL-STD-704F
- Meets UFGS 26 35 44 & 26 33 83
- Soft Start
- THD < 05%, THC < 0.015%
- Meets all other F-35 & F-22 requirements
- 270VDC: 267 amps 72kW steady state
- 28VDC: 15 amps
- 270VDC +/- 3 VDC
- 28VDC +1/-2 VDC
- Ripple Amplitude: meets LMCO interface spec 2ZEU00004, Rev-0007
- Output Transient: meets LMCO interface spec 2ZEU00004, Rev-0007

Overload 270VDC, 28VDC: 150% 5 Sec, 200% 1 Sec, 250% 50mSec

Overload 400HZ: 110% 50 min, 125% 5 min, 150% 2 min, 200% 20 sec, 300% 6 sec

400 Hz

- Meets and exceeds MIL-STD-704F
- Meets UFGS 26 35 43
- Soft Start
- THD < 05%, THC < 02%
- Individual Phase Regulation
- I-Boost automatic LDC
- Power: 90KVA @ PF 1.0 lag
- Voltage: 115/200V WYE, ABC-N
- Frequency: 400HZ +/- 0.1%
- Power Factor: 0.5 lag to 1.0 lead
- Voltage Regulation: < 0.1%
- Crest Factor: 1.414 +/- 0.1%
- Short Circuit Capability



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Maximum Input Current

380V	126 Amps
400V	120 Amps
415V	116 Amps
480V	98 Amps

Dimensions

Width	24 inches (605 mm)
Height	63 Inches (1601mm)
Depth	27 Inches (670 mm)

Weight

1190 LBS (540 kg)

Environmental Conditions

- Capable of normal operations from -40°F to +131°F (-40°C to +55°C)
- Relative humidity 0-95%

Housing

- NEMA 4 (IP54) RAL 7035 - phosphatized, primed and powder sprayed

Noise

- < 68 dB(A)

Maintenance

- No Preventative maintenance required. (MTTR) 30MIN, (MTBF) 35,000 hours

Protection

- Over/under voltage: Input and Output
- Overload
- Short circuit
- High temperature
- Internal system error

Aircraft Compatible

- F 35
- F 22
- F 16
- F 18
- F 15
- UAV
- MV 22
- Mirage
- Typhoon
- And others

Controls and Indicators

- LIQUID CRYSTAL DISPLAY - 4 lines
- Plain Language Fault Display - display of current operating data, voltage, current frequency, power, voltage adjustment, DC Bus Voltage Adjustment, hour Meter, 28VDC interlock Output, Input Voltage Phase A, B and C, Output Voltage, Output Current, Output kW, Event and fault history and more.
- Buttons For: On/Off, Arrow Up/Down, Hand Key, Reset, Horn Off
- LEDs For: Input, Rectifier, Inverter, Output, Alarm/Reset, Horn