



B-Power
Gate Box Line Drop Compensator

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BGSE Group is pleased to offer B-Power®. The most advanced and reliable 400Hz power supply. The 400Hz gate Box Line Drop Compensator system is the more diverse and robust in the industry and is for both indoor and outdoor installation. The B-Power® line of units all have advanced self diagnostic capabilities, automatic line drop, under 5% input THD standard and easy to operate user interface. The B-Power® line of units raise the bar for the industry offering the most powerful unit in the most economical package.





B-Power 400Hz Ground Power System

Main Input Current

- ▶ Input: 115/200 volts wye, 575 volts or 960 volts delta 20

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NAMEPLATE KVA	RESISTIVE LOAD (kw)		REACTIVE LOAD (kVAR)	
	100%	150%	100%	150%
90	72	108	54	81
120	96	144	72	108
125	100	150	75	112.5
140	112	168	84	126
180	144	216	109	163.5

Protection

- ▶ Voltage and current values are independently determined for each output phase. Sensing is at the transformer secondary, ahead of the contactor(s).
- ▶ Overvoltage sensing per output phase
- ▶ Undervoltage sensing per output phase
- ▶ Overload sensing per output phase
- ▶ Trip Reset: May be reset from ground level by operating a ground level "Off Button"
- ▶ Control Circuit Protection: The E / F and ON / OFF circuits cannot be damaged by inadvertent contact with phase power.
- ▶ Thermal control: Redundant, independently controlled fans. A cooling failure for any reason will operate a self-resetting, high limit, thermal switch at 160 °F / 70 °C and power down the Gate Box.

Indications

- ▶ Fault: Individual indicators for Over-voltage, Undervoltage and Overload (2 Overload on dual output units)
- ▶ Power Available
- ▶ Optional: Telemetry to remotely indicate voltage and current for each output

Today's aircraft make the most extensive use of electronics imaginable placing very high demands on it's ground power source. In addition to heavy ground power loading, newer aircraft can produce high level power transients as a part of their normal operation.

The BGSE Gate Box addresses all the latest aircraft ground power requirements. The digital circuitry within the Gate Box will not permit the aircraft to be connected to power that is out of limits. If ground power limits are exceeded while the aircraft is on-line, power to the aircraft will be interrupted by the Gate Box. Without compromising safety, nuisance tripping is positively eliminated. This equipment is user friendly and does not normally require routine maintenance.

Long Term Advantage: This product assists in minimizing the risk of power system fault damage to both the aircraft and the ground support facilities. This serves to enhance the reliability of the ground power system, thus encouraging more use of ground power and less use of the expensive APU aboard the aircraft. The elimination of nuisance fault trip has minimized the chance of gate delays caused by ground power or the aircraft.



BGSE is an international supplier of the highest quality aerospace support products. We're committed to 100% on time supply, zero defects, and complete customer satisfaction.

Our core focus is turn-key, integrated solutions. BGSE has the experience to execute design-build projects with architects, engineering firms, general contractors, electrical contractors, mechanical contractors and all installation and maintenance companies.

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