



# GG-1508-20

Sheet 1 of 2

The GG-1508-20 power converter is a nominal 36 volt to 13.8 volt dc—dc converter. This device is designed for use on trains, buses, trucks, or other automotive devices where clean regulated electrical power is required.

The input of the converter is protected against polarity connections. The converter is also protected against thermal and over voltage input with automatic recovery.

The converter can handle vibration and shock as is normally encountered in the automotive environment and storage temperatures of 85°C.

## Environmental Specifications:

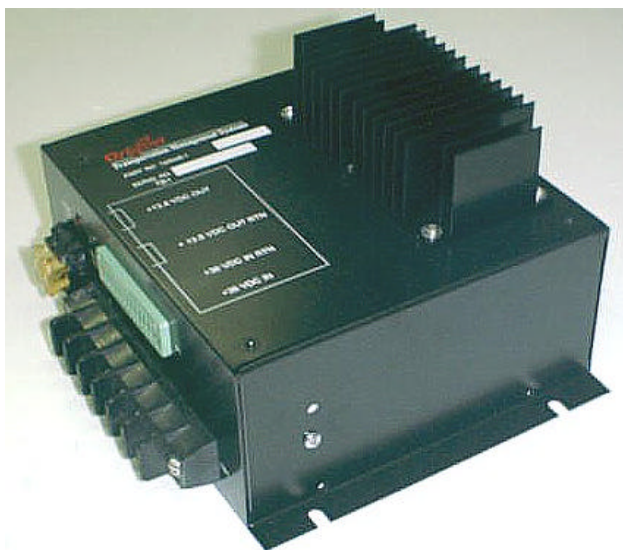
- Operating Temp.: \_\_\_\_\_ -40 to 50°C<sup>2</sup>
- Storage temp: \_\_\_\_\_ -40 to 85°C
- Sealing: \_\_\_\_\_ Splash proof and Dust proof
- Humidity: \_\_\_\_\_ 0 to 95% non condensing
- Shock: \_\_\_\_\_ Mil-Std-810, Procedure I, functional shock for ground vehicles.
- Vibration; \_\_\_\_\_ Mil-Std-810, Category 8 for Equipment installed in wheeled vehicles.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Performance Specifications:

- Input Voltage range = 21 to 42 VDC
- Output Voltage = 13.8 VDC
- Power output = 300 Watts continuous @13.8 VDC
- Ripple < 1% of output
- Regulation = +/- 2% Line/Load
- DC Isolation (Input/Output, Input/ Chassis, Output Chassis) = 1000VDC
- Efficiency = 87%
- Under voltage lockout = 17.5 volts in—ON  
20.2 volts in—OFF  
Auto recovery
- Over voltage shutdown = 43.0 volts
- Short circuit protection = automatic recovery
- Reverse polarity protected input
- 2 fused outputs

## Physical Specifications:

- Size: \_\_\_\_\_ 7.0 x 7.0 x 5.0h
- Finish: \_\_\_\_\_ Black enamel (baked)
- Mounting: \_\_\_\_\_ Bracket
- Net weight: \_\_\_\_\_ **TBD**
- Marking: \_\_\_\_\_ White permanent ink
- Orbital Logo: \_\_\_\_\_ Red paint (MS 485)



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