

POWER SUPPLIES

CONVERTER

- **DC/DC Converter**
- **Rolling Stock Application**



Features:

- Output current limit protection
- 20% design margin on power and current ratings
- Soft-start with battery voltage application
- Qualified to locomotive environment extremes
- Qualified for EMI
- High Reliability Design greater than 290,000 hrs. MTBF

This power supply was developed by Espey for a major locomotive manufacturer. The high reliability power supply was designed and tested for extreme locomotive environmental conditions. This Power supply is capable of parallel operation with like units in a redundant fashion. This power Converter operates from a very wide input ranging from 25 to 85 Vdc

Specifications:

Electrical Specifications

- **Input Voltage:** 25 - 85 Vdc
- **Output Voltage:** +15 Vdc
- **Output Current:** 0.5 - 20 Amps
- **Output Power:** 300 watts continuous
- **Regulation, Line & Load:** $\pm 5\%$
- **Efficiency:** 80 % minimum

Mechanical Specifications

- **Weight:** 10 lbs. max
- **Size:** 3.6"x11.5"x9.25"
- Modular Aluminum Chassis

Rev. A