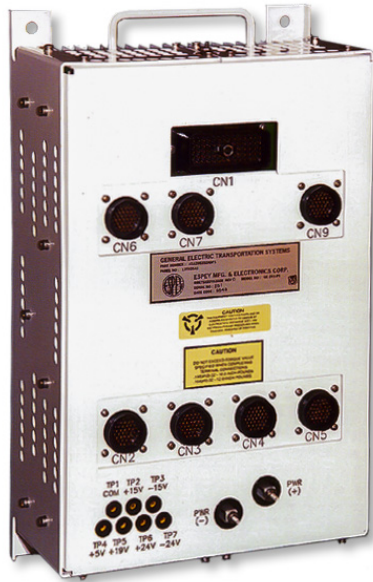


POWER SUPPLY

LOW VOLTAGE POWER SUPPLY (LVPS)

- SWITCHED MODE CONVERTER



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 Converter operates from a very wide input ranging from 25 to 85 Vdc. There are six outputs (+5,+15,-15,+19,+24,-24 Vdc) with a total load power of 1000 W continuous and 1620 W for 1 minute transients. All outputs are fully regulated with 115% current limiting and 125% OVP.

Specifications:

Electrical Specifications

- **Input Voltage:** 25 - 85 Vdc
- **Output Voltage:** +5,+15,-15,+19,+24,-24 Vdc
- **Output Power:** 1000 watts continuous/channel
- **Regulation, Line & Load:** $\pm 5\%$
- **Efficiency:** 75 % minimum

Features:

- Output current limit protection
- 20% design margin on power and current ratings
- Power enable control signal
- Soft-start with battery voltage application or enable control signal
- Qualified to locomotive environment extremes
- Qualified for EMI
- High Reliability Design

Mechanical Specifications

- **Weight:** 40 lbs. max
- **Size:** 10"x10"x15"
- Aluminum extrusion with integral heat-sink

GE-241-PS