

FEATURES

- 9V to 36V DC Input
- Isolated DC Output
- Multiple Output Voltage Versions
- 100W Maximum Output Power
- 88% Efficiency
- Extended Temperature Range
- No Cooling Fans Required
- AAR Binding Post Wire Connections
- AREMA Class C Environmental
- Power Module Meets UL60950-1
- Standard B2 Sized Mounting Plate

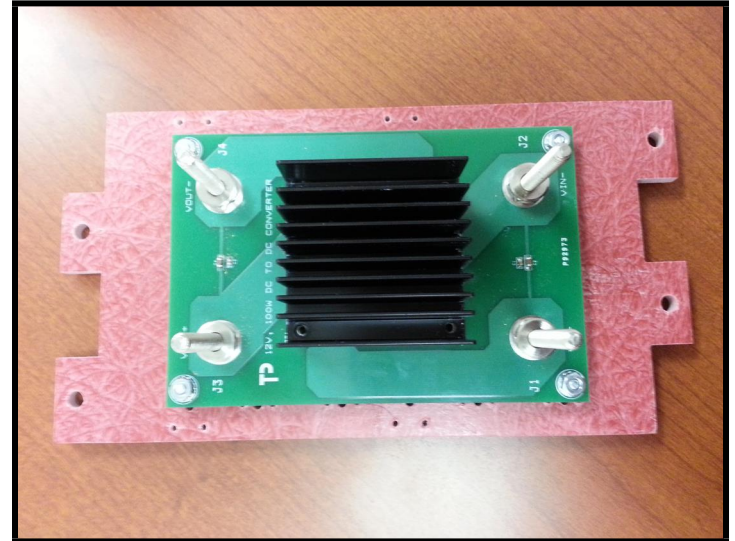
DESCRIPTION

The 100W DC to DC Converter is a high efficiency power supply that can handle input voltages from 9VDC to 36VDC. Multiple output voltages are available as stated in the ordering information below. It is designed to operate from -40C to +70C ambient with no cooling fans. Over the temperature and input voltage range, and with load transitions from 10% to 100%, the supply will maintain the output voltage within +/-2%. It is ideal for use with a battery charger output as its input. It is primarily used for loads that require battery back-up with tight input voltage tolerances and low input voltage noise level requirements.

The DC-DC Converter mounts to a non-metallic plate that is cut to the size of a standard B2 relay base. This allows for easy installation in train control racks.

PROTECTION FEATURES

- Output Over-Voltage Protection (115%)
- Continuous Short Circuit Protection
- Output Current Limit (110%)
- Over Temperature Shutdown (110°C)



ELECTRICAL SPECIFICATIONS

| | |
|----------------------------------|---------------------------------------|
| Input Voltage | 9V _{DC} to 36V _{DC} |
| Maximum Input Power..... | 115W |
| Output Voltage..... | See table below |
| Output Voltage Tolerance..... | +/-2% |
| Maximum Output Power..... | 100W |
| Min Operating Temperature..... | -40°C |
| Max Operating Temperature | +70°C |
| Maximum External Fuse Size | 20A |

MECHANICAL SPECIFICATIONS

| | |
|--------------|---------|
| Height..... | 5in |
| Width..... | 9.5 in |
| Depth..... | 2.75 in |
| Weight | 1 lbs |

ORDERING INFORMATION

| Desired DC Output Voltage | Catalog Number |
|---------------------------|--------------------|
| 5V | SiPS-5V-100W-DCDC |
| 12V | SiPS-12V-100W-DCDC |
| 15V | SiPS-15V-100W-DCDC |
| 24V | SiPS-24V-100W-DCDC |
| 28V | SiPS-28V-100W-DCDC |
| 48V | SiPS-48V-100W-DCDC |

