



DC24-60L DC-DC Converter

For Electric, Hybrid Electric, and Fuel Cell Powered Vehicles



Design Incorporates:

- 1.6 kW Power Output
- Input and output over voltage protection
- Over Temperature Shutdown
- J1455, J1113-Level 3, and IP67 qualified device
- Input voltage range of 250-425 volts
- Output voltage range of 18-32 volts

Key Features:

Liquid Cooling – SAE 10 Fittings

3000 VAC Isolation

Enable / Disable Input

Fault Output

Integral Soft Start

Light weight and Compact

Automatic Current Limiting

Input Fused

Limp Home Capability

DC24-60L DC-DC Converter

For Electric, Hybrid Electric, and Fuel Cell Powered Vehicles

Operating Voltage

| | |
|-------------------------------|----------------|
| Nominal input voltage | 350 VDC |
| Operating voltage input range | 250 to 425 VDC |
| Input under voltage lockout | 250 VDC |
| Nominal output voltage | 27.4 VDC |
| Output voltage range | 18 to 32 VDC |
| Maximum output current | 60 A |

Liquid Cooled System

| | |
|--------------------------------------|----------------------------------|
| Minimum coolant flow | 4 l/min (50/50 water/glycol mix) |
| Pressure drop | 1 psi at 20 l/min |
| Maximum inlet temperature of coolant | 140° F 60° C |

Dimensions

| | | |
|--------|---------|----------|
| Length | 12.3 in | 312.4 mm |
| Width | 7.0 in | 178 mm |
| Height | 2.7 in | 70 mm |
| Weight | 12 lb | 5.5 kg |

Performance

| | |
|-------------------------------------|-----------|
| Peak power | 1.6 kW |
| Efficiency | Up to 90% |
| Standby power consumption (enabled) | 20 W |

Signal Connector

Deutsch Mating Part No. DT06-45

High Voltage Connector

Yazaki Mating Part No. 7225-6795-51

Low Voltage Connectors

3/8"-16 and 1/4"-20 Ring Lugs

Coolant Connections

SAE 10 Fittings

