



DC12-120L 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 9-16.5 volts*

(*must be specified at time of order)

Key Features:

Liquid Cooling – SAE 10 Fittings

3000 VAC Isolation

Enable / Disable Input

Fault Output

Light weight and Compact

Automatic Current Limiting

Limp Home Capability

Integral Soft Start

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Operating Voltage

Nominal input voltage	350 VDC
Operating voltage input range	250 to 425 VDC
Input under voltage lockout	250 VDC
Nominal output voltage	13.5 VDC
Output voltage range	9.0 to 16.0 VDC
Maximum output current	120 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. DT06-4S

High Voltage Connector

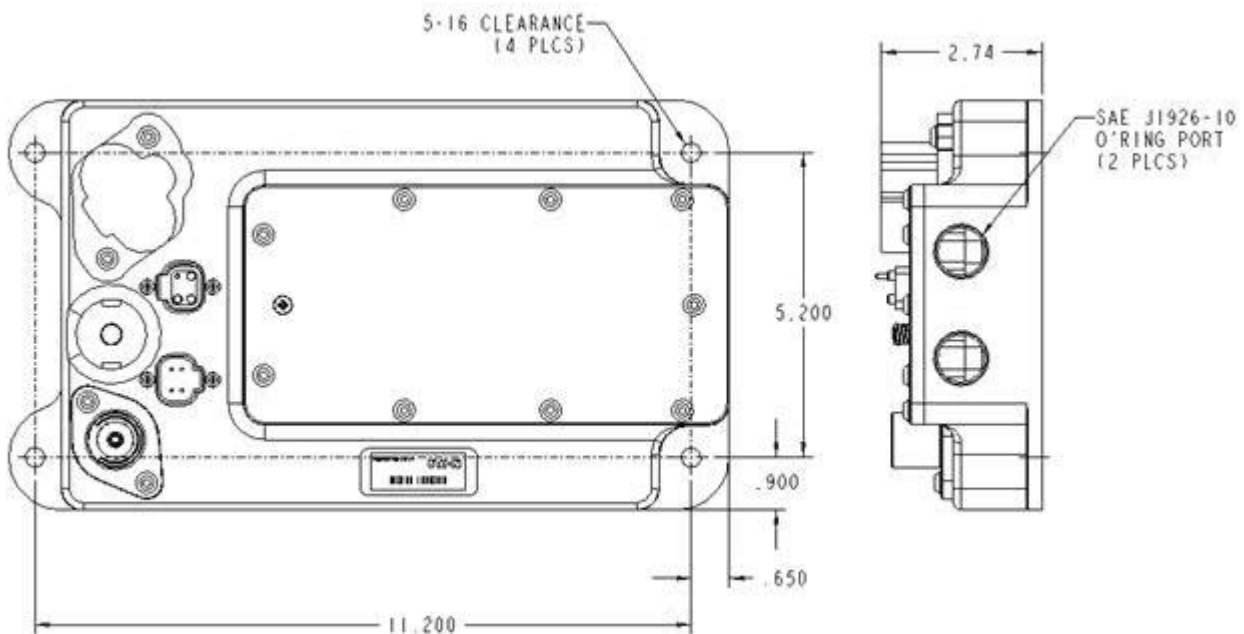
Yazaki Mating Part No. 7225-6795-51

Low Voltage Connectors

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

Coolant Connections

SAE 10 Fittings



*subject to change