



DD40-100L Converter

Three-Phase Motor/Generator Controller



Design Incorporates:

- 600V/300A IGBTs with operation up to 400 VDC
- Configurable to 800 VDC (1200V/150A IGBTs)
- Field Oriented Control (sine-wave drive)
- Compatible with digital Halls or resolver
- CAN or Analog Control
- Configurable for power generation
- Liquid Cooled (70° max inlet temperature)

Key Features:

Microprocessor Controlled

CAN & Serial Communication

Diagnostic Capability

Over Temperature Protection

Rugged, Weatherproof Enclosure

Liquid Cooled

Light Weight and Compact

Automatic Torque Limiting

Low Standby Power

Automatic Current Limiting

Automatic Over Speed Control

Capable of Optimum Battery -

Management

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Inverter Type

Control type
Sine-wave drive, 3-Phase Brushless PM

Maximum motor current
150 A peak

Power device
IGBTs

Switching frequency
12.5 kHz

Standby power consumption
8 W (inverter and microprocessor)

Liquid Cooled System

Coolant Method
2 gpm (50/50 Water Glycol)

Maximum inlet temperature of air
158° F 70° C

Dimensions

| | | |
|--------|-----------|--------|
| Length | 11.625 in | 295 mm |
| Width | 7.75 in | 197 mm |
| Height | 4.20 in | 107 mm |
| Weight | 9.1lb | 4.13kg |

Performance

| | | |
|------------------|-------|-------|
| Continuous power | 34 hp | 25 kW |
| Efficiency | 96% | |

Operating Voltage

| | |
|-------------------------------|----------------|
| Nominal input voltage | 340 VDC |
| Operating voltage input range | 250 to 420 VDC |
| Minimum voltage limit | 180 VDC |
| Input current limitation | 100 A |

