PRODUCT OVERVIEW:
The DC07 Series of converters has been designed for medium and heavy duty electric, hybrid and fuel cell commercial vehicles. It uses advanced digital control with J1939 communications and diagnostics with secondary analog controller and high frequency magnetics with advanced ZVS/ZCS switching to achieve high power density and efficiency. DC07 products are FCC Class A compliant. MIL-STD-1275 option available.

FEATURES:
- DC Input Voltage Range: 250-900V_{DC}
- DC output range: 12-30V_{DC}
- Efficiency: 95% rated, > 94% from 40% to 100% load.
- Output Current: 200A at 27.8V_{DC}, 6 kW, or 300A at 13.6V_{DC}.
- Short Circuit, Over Current, Over/Under Voltage and Over Temp protection.
- Output voltage 12 to 30 V_{DC}, or (42-57V_{DC} optional) programmable via CAN.
- Input and output voltages, currents, power and temperature reporting.
- CAN command, control and diagnostics. Output voltage can be regulated via CAN.
- Can be used in parallel configurations.
- High Efficiency ZVS/ZCS architecture.
- FCC Class A EMI/EMC Compliance, (MIL-STD-1275 Optional)
- IP65 Rated, (IP67 optional)

APPLICATIONS:
Electric, Hybrid and Fuel Cell Vehicles, Light Rail, Off-road equipment and Battery charging systems. DC07 can be customized to meet your most stringent applications requirements.

PART NUMBERING:

| DC07 |  |  |  |  |  |  |  |  |
|------|---|---|---|---|---|---|---|
| Input Volts | V-output | Control |
| MV: 250-450V_{DC} | 12: 12V_{DC} | C: CAN |
| HV: 550-750V_{DC} | 24: 24V_{DC} | 0: Fixed |
| LV: 700-900V_{DC} | 48: 48V_{DC} |  |

DATA SHEET REV: 1402, Specifications subject to change.