

Overview

The Solectria UMOC is a self-contained, microprocessor controlled, three-phase AC vector control power inverter for AC induction, DC brushless traction drive and auxiliary drive motors. The UMOC utilizes highly reliable IGBT power semiconductor switches.

Applications

Responding to all input sensors and commands, the UMOC provides the power output necessary to operate an over-the-road vehicle. In addition to controlling the main traction motor, the UMOC can send signals to dashboard displays and exterior vehicle signal lights.

Features

- Regenerative braking
- Automatic thermal protection
- Over and under voltage limits for batteries
- Internal contactor
- Self-contained operation
- High-speed microprocessor
- Multi-level safety systems
- Lightweight aluminum chassis
- Trenchgate IGBTs for highest possible efficiency
- High-power air cooling system

Available and Custom Options

- Interface kit includes mating connectors, mounting hardware, 25-pin cable, accelerator/brake controller, forward/reverse switch, power saver control, and regen disable switch.
- Driver's console can be configured to operate single or multiple controllers
- Factory customized parameter settings

An engineering fee applies to all customized orders.



Specifications

Dimensions	488mm x 225mm x 235mm
Weight	15.9kg
Min. Nominal Battery Voltage	216VDC
Max. Nominal Battery Voltage	312VDC
Min. Operational Voltage	160VDC
Max. Operational Voltage	370VDC
Unit Efficiency	96-98%
Min./Max. Operating Temps.	-40°C to 75°C
Max. Current	280A rms
Peak Power	78kW @ 312V
Continuous Power	38kW @ 312V
Max. Voltage "On Charge"	450VDC

**Battery Voltage vs. Peak Power
UMOC445TF**



