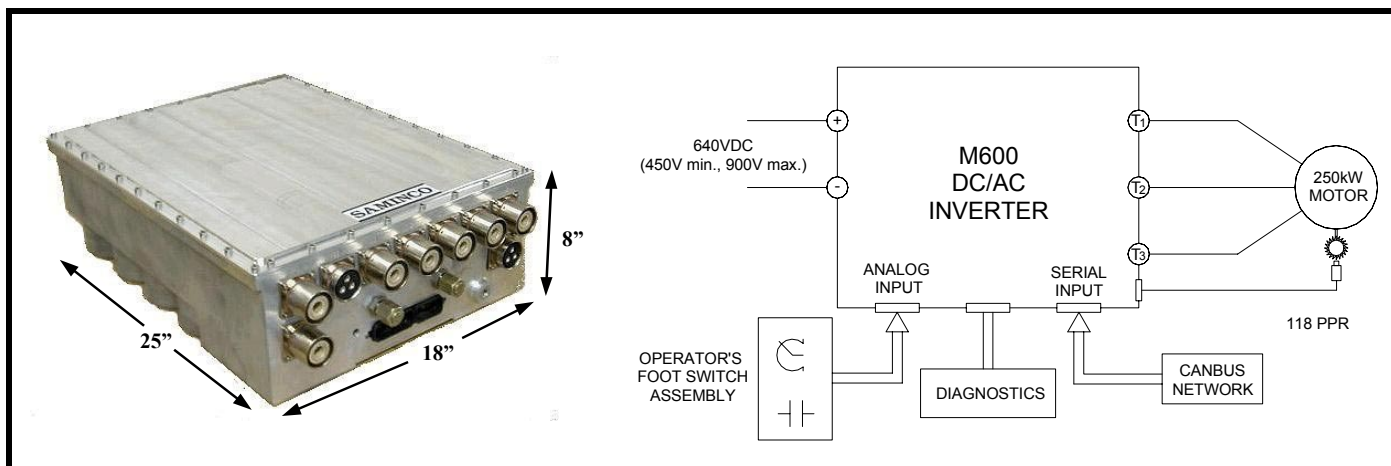


M1-250

250kW TRACTION INVERTER FOR FUEL CELL AND HYBRID ELECTRIC VEHICLES



- Compact, lightweight Flux Vector traction inverter for buses and trucks
- Powered from 640VDC nominal DC power supply
- Operates over wide input voltage range: 450VDC MIN, 900VDC MAX.
- Provides Torque control for induction motor with simple automotive-type induction pick-up speed feedback device
- Controlled via standard analog foot control (0 TO 10V) or CANBUS network
- Configured for interfacing with SAMINCO pc-based DRIVE DOCTOR™ real-time diagnostic and control system
- Complete with self contained soft charge circuit and by-pass contactor

Specifications:

<u>Input Voltage:</u>	640VDC Nominal - 450V Min, 900 V Max.
<u>Output:</u>	400A @ 460VAC Continuous, 600A for 30 seconds for coolant temperature of 65°C Max.
<u>Motor Rating:</u>	250kW @ 460VAC
<u>Output Frequency Range:</u>	0 to 120Hz(up to 400Hz optional)
<u>PWM Frequency:</u>	2.5kHz (Operation to 10kHz possible with derating)
<u>Speed Feedback:</u>	-unidirectional flux vector operation: inductive pick up, min 100 PPR. -bi-directional flux vector operation: 2 channel quadrature encoder.
<u>Peak Accelerating Torque:</u>	150% of Nominal Rating
<u>Peak Braking Torque:</u>	100% of Nominal Rating (requires Dynamic Braking module and resistor)
<u>Analog Torque Reference:</u>	for -100% torque to +150% torque: -6V to +10V.
<u>Coolant:</u>	WEG coolant @ 20l/min., Min Temperature -20°C , Max Temperature +65°C .
<u>Storage Temperature:</u>	-40 °C to +105°C