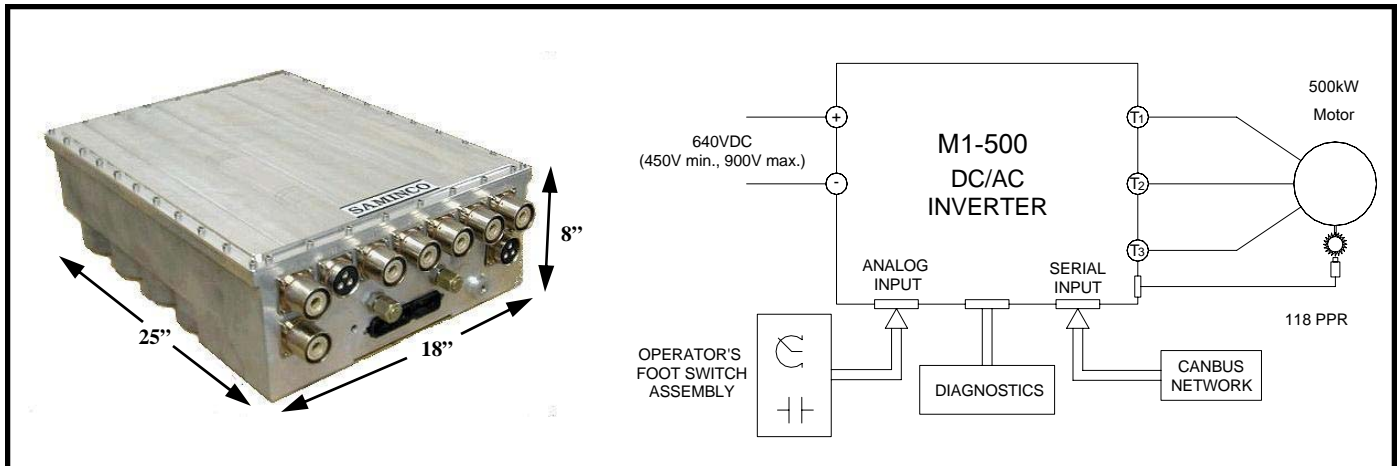


M1-500
500kW TRACTION INVERTER
FOR FUEL CELL AND HYBRID
ELECTRIC VEHICLES



- 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:

Input Voltage:	640VDC Nominal - 450V Min, 900 V Max.
Output:	400A @ 460VAC Continuous, 600A for 30 seconds for coolant temperature of 65°C Max. (contact factory for higher rating)
Motor Rating:	500kW @ 460VAC (contact factory for higher rating)
Output Frequency Range:	0 to 120Hz(up to 400Hz optional)
PWM Frequency:	2.5kHz (Operation to 10kHz possible with derating)
Speed Feedback:	-unidirectional flux vector operation: inductive pick up, min 100 PPR. -bi-directional flux vector operation: 2 channel quadrature encoder.
Peak Accelerating Torque:	150% of Nominal Rating
Peak Braking Torque:	100% of Nominal Rating (requires Dynamic Braking module and resistor)
Analog Torque Reference:	for -100% torque to +150% torque: -6V to +10V.
Coolant:	WEG coolant @ 20l/min., Min Temperature -20°C , Max Temperature +65°C .
Storage Temperature:	-40 °C to +105°C

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