CM200 INVERTER

Our newest inverter is the CM200, packing the punch of a PM150 but being smaller volume and lighter weight than a PM100. Also features HVIL, pluggable connectors and an EMI filter!

FEATURES

- 4 (0-5V) Analog Inputs
- 2 RTD inputs PT100/1000
- 4 Digital Inputs 4-STG
- 2 High Side Driver Outputs
- 2 Low Side Driver Outputs
- 1 Resolver Interface
- 1 Sin-Cos Encoder Interface (-SP Option)
- 2 CAN 2.0A/B Ports 125kb-1Mb adjustable rate and offset
- RS232 Programming and Diagnostic Connection
- Rosenberger Power Connectors
- Integrated DC-Link EMI Filter
- Designed to ISO16750 heavy vehicle climatic, mechanical, and environmental requirements
- ISO20653 high pressure wash rated IP6K9K / IP67
- Easy to use CAN-based network node
- Custom .dbc messaging
- J1939 compatible CAN messages available
- Extensive feedback broadcast messaging for datalogging
- PC-based setup and programming tools available free
- Robust, fault-tolerant IGBT power stage
- HVIL Interlock on connectors
- Command Safety Watchdog
- Variable PWM Rate

CM200	DX	DZ	Units
DC Voltage – operating	50-480	200-840	VDC
DC Overvoltage Trip	500	860	VDC
Maximum DC Voltage – non-operating	500	900	VDC
Motor Current Continuous	300	200	A
Motor Current Peak *	740	400	Arms
Output Power Peak (elect) *	225	225	kW
DC Bus Capacitance	650	255	µF
Size and Volume	330 x 188 x 97 / 3.9		mm / L
Weight	6.75		kg
Active Discharge via motor winding to <50V	< 1		sec
Passive Discharge (internal resistor) to <50V	< 120		sec
Vehicle System Power	9 .. 32 (12V & 24V systems)		VDC
Inverter PWM Frequency	12 (6 .. 16 variable)		kHz
Operating Temperature Range – coolant water	- 40 .. +80, (derate to zero 80 .. 100)		°C
Coolant Flow Rate	12 (3 GPM min)		LPM
Coolant Pressure Drop (60°C coolant / 12 LPM)	0.3 (30kPa / 4.3psi)		bar
Maximum Coolant Pressure (absolute)	3 (300kPa / 45psia)		bar
Operating Shock (ISO 16750-3, Test 4.2.2.2)	500 (50g), pending		m/s^2
Operating Vibration (ISO 16750-3, 4.1.2.7 Test VII)	57.9 (6grms), pending		m/s^2
EMC compatibility	IEC61000 / CISPR-25 pending		
Compatible Conductor Sizes	16, 25, 35, 50		mm^2

Ratings subject to change without notice—consult factory
*   Peak current is defined as a maximum of 30 seconds.

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CASCADIA MOTION