



CM350 INVERTER



The CM350 is within Cascadia Motion's newest product line of inverters. Being the big brother to the CM200, the CM350 delivers very high current and works with the highest of today's common voltage levels. It 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
- Amphenol Powerlok 500 Gen2 Connectors
- Integrated DC-Link EMI Filter
- Designed to ISO 16750 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

CASCADIA MOTION
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CM350	DX	DZ	COMING SOON SiC	Units
DC Voltage – operating	100-480	200-850	200-850	VDC
DC Overvoltage Trip	500	860	860	VDC
Maximum DC Voltage – non-operating	500	900	900	VDC
Motor Current Continuous **	500	500	500	Arms
Motor Current Peak *	1350	800	900	Arms
Output Power Peak (elect) *	400+	440+	500+	kW
DC Bus Capacitance	1300	510	700	µF
Weight	17.4	17.4	14.6	kg
Size and Volume	358 x 299 x 99 / 10.6			mm / L
Active Discharge via motor winding to <50V	< 2			sec
Passive Discharge (internal resistor) to <50V	< 120			sec
Vehicle System Power	9 - 32 (12V & 24V systems)			VDC
Inverter PWM Frequency	4 - 24			kHz
Operating Temperature Range – coolant water	-40 - +80, (derate to zero 80 - 100)			°C
Coolant Flow Rate	24			LPM
Coolant Pressure Drop (60°C coolant / 24 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	70, 95, 120			mm ²

Ratings subject to change without notice—consult factory

* Peak current is defined as a maximum of 30 seconds.

** Higher continuous limits may be possible with the motor-integrated version whereby the phase lead connectors are eliminated.

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