

ExtrIQ Standards Compliance

A. Environmental Conditions

The ExtrIQ Products are designed, manufactured and tested to meet Extreme Environmental Conditions. The ExtrIQ line is in compliance with the following MIL Standards. The environmental tests methods are according to MIL-STD-810.

1. Ambient Temperature Range

Non-Operating Condition :	-50°C to +100°C.
Operation Condition :	-40°C to +70°C.

2. Temperature Shock

Non-Operating Condition :	-40°C to +70°C within 3 min.
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3. Altitude

Non-Operating Condition :	Unlimited.
Operation Condition :	-1,000 to 510,000 ft

4. Relative Humidity

Non-Operating Condition :	up to 95% relative humidity non-condensing at 35°C
Operation Condition:	up to 95% relative humidity non-condensing at 25°C up to 90% relative humidity non-condensing at 42°C

5. Vibration

Operation Condition:	20 Hz -2000 Hz, 14.6 grms
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6. Mechanical Shock

Non-Operating Condition :	±40 g	Half sine, 11 msec., 3 per direction (overall 18)
Operation Condition :	±20 g	Half sine, 11 msec., 3 per direction (overall 18)

B. Electrical Power Characteristic

Specification	Details
MIL-STD-1275	Characteristic Of 28 Volts DC Electrical Systems In Military Vehicles. Note: Compliance to versions A and B
MIL-STD-704	Aircraft Electric power Characteristic.

C. Quality Assurance

Specification	Details
ISO 9001:2000	Quality Management

D. Design

Specification	Details
MIL-HDBK- 217F	Reliability prediction of electronic equipment (rating, de-rating, stress, etc.)
IPC-D-275 IPC-SM-782 IPC-CM-770 UL508c UL840	Printed wiring for electronic equipment (clearance, creepage, spacing, conductors sizing, etc.)
In compliance with IEC68	Type testing

E. Safety

Specification	Details
In Compliance with UL508c	Power conversion equipment
In compliance with UL840	Insulation coordination, including clearance and creepage distances of electrical equipment
In compliance with UL60950	Safety of information technology equipment, including electrical business equipment
In compliance with EN60204-1	Low voltage directive, 73/23/EEC

F. EMC

EMC Specification	Details
In compliance with EN55011 Class A with EN61000-6-2: Immunity for industrial environment, according to: IEC61000-4-2 / criteria B IEC61000-4-3 / criteria A IEC61000-4-4 / criteria B IEC61000-4-5 / criteria B IEC61000-4-6 / criteria A IEC61000-4-8 / criteria A IEC61000-4-11 / criteria B/C	Electromagnetic compatibility (EMC)
MIL-STD-461/ 462	

G. Workmanship

Specification	Details
In compliance with IPC-A-610, level 2	Acceptability of electronic assemblies

H. PCB

Specification	Details
In compliance with IPC-A-600, level 2	Acceptability of printed circuit boards

J. Packing

Specification	Details
In compliance with EN100015	Protection of electrostatic sensitive devices