PROTERRA POWERED

PROTERRA®
E-MOBILITY TECH

PROTERRA HIGH VOLTAGE INTEGRATION CONTROLLER

Proterra High Voltage Integration Controller (HVIC) manages the J1772 and ISO-15118 charge sessions, including controlling vehicle contactors and monitoring critical signals.

Multiple CAN channels provide flexibility for integrating Proterra battery systems into a wide range of applications.

- **J1772 Plug-In Charging**
- **ISO-15118-v1 Plug-In Charging**
- **ISO-15118 Vehicle to Grid (V2G)**
- **J1939 Diagnostics**
- **Secondary processor to enable functional safety audit of main processor**
- **PLC communication standard**
- **Proximity signal**
- **4 CAN channels**
- **Designed to be chassis mounted**
- **Flexible CAN interface for various applications (J1939 HVES – Default)**

SPECIFICATIONS OVERVIEW	
Voltage Range	12V/24V Systems
Operating Voltage	8-32VDC
Operating Power	< 50W
Standby Current	< 5mA
Ingress Protection	IP69K
Operating Temperature	-40°C to 85°C
Dimensions	241mm x 205mm x 51 mm
Weight	1200g
CHARGING PROTOCOLS	
J1172 CCS/ISO-15118	
ELECTRICAL CHARACTERISTICS	
Operating Voltage for 24V systems	Min: 8.0V, Typical: 28V, Max: 32V
Operating Voltage for 12V systems	Min: 8.0V, Typical: 12V, Max: 18V
Operating Current	Typical: 0.16A @ 27V
Standby Current	Typical: <5mA @25 °C
ENVIRONMENTAL TESTS	
Operating Temperature Range	Maximum 1000 hours at 105 °C
Vibration	ISO 16750 chassis mount IEC 60068-2-64
Shock	IEC 60068-2-27 IP69K IPx8 (1 meter immersion)
Emissions	Designed for DIN/ISO 11452 ISO 7637-2 CISPR 25

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