

Charge Control L

Introduction

Charge Control L is a stand-alone charge controller that enables DC-charging in commercial vehicles, heavy-duty trucks, and similar applications. The charging communication is compliant to DIN 70121 and ISO 15118. To assure functional safety, this ECU handles safety features up to ISO26262 ASIL B.

Key Features

- Charging stack for ISO 15118 and DIN 70121 (ISO 15118-20 in development)
- ASIL-B compliant regarding ISO 26262
- VCU communication with J1939
- Automotive qualified
- UDS-based diagnostic features
 - Firmware update
 - Communication Stack update
 - Self-diagnostic
 - Parameterization
 - Bootloader

Application

- Charge controller for electric vehicles
- Electric busses
- Electric trucks
- Electric construction machineries
- Electric boats

Variants

Parameter	Value	Features
CBCCL-STD-001	Standard	-
CBCCL-STD-003	Automotive Security	Cybersecurity compliant with R155 and R156 with secure firmware update and customizable firmware signing and diagnosis

Operational

Parameter	Value
Temperature range	-40°C - 85°C (Industrial)
Power supply	12V / 24 V nominal (9-32V)
Outline dimension	Width: 153.2 mm Length: 134.6 mm + 18.2mm (header) Height: 47 mm
Weight	400 g
RoHS / REACH	Compliant
IP Class	IP6K9K (ISO 20653)



Interfaces

- Plug interface: PP, CP and PE
- Inlet controller: Lock motor and lock feedback
- 4x Temperature sensor: PT1000 and PTC
- 4x LED output (100mA)
- 2x HV-Switch control
- 2x HV-Switch Feedback
- 2x HV-Interlock generator and detector
- 1x Button input
- 2x CAN