



EVCC Gen 3

Electric Vehicle Communication Controller

Sensata is excited to unveil the third generation of its Electric Vehicle Charging Controller (EVCC), further expanding its comprehensive Electrification Portfolio. The EVCC Gen 3 builds upon the capabilities of Generation 2, supporting CCS1, CCS2, NACS, and now the **MCS Charging Standard**. With Plug and Charge (PnC) capability, in full compliance with ISO 15118-20, vehicles are effortlessly authenticated upon connection, seamlessly initiating the charging process. The EVCC Gen 3 also supports Bidirectional Power Transfer (BPT), enabling energy flow in both directions in accordance with ISO 15118-20 standards. Additionally, this controller is fully Autosar-compliant, ensuring seamless integration with diverse automotive systems. With the added MCS functionality, the EVCC Gen 3 is ideally suited for large-scale applications, including Class 8 trucks and heavy off-road equipment.

Highlights

Charging Support

- IEC 61851: CCS1, CCS2
- SAE J3400: NACS
- SAE J3068
- IEC 61851-23-3: MCS
- ISO 15118-20: TLS 1.3, BPT, Dynamic Charging, Plug and Charge
- ISO 15118-2: TLS1.2, Plug and Charge, Value Added Service
- DIN 70121

Vehicle Control

- J1939 CAN Bus
- Stop Button Input
- LED Controls
- Inlet Temperature Sensing
- Inlet Motor locking and feedback
- Vehicle Enable Output
- Configurable I/Os

Features

- Charging Support (CCS/NACS/MCS)
- Autosar
- BPT in accordance with ISO 15118-20

Applications



Parameters

Description

CPU	TC3x
Voltage Range	12V / 24V Applications (8V-32V)
Temperature Range	-35 / +85 Degrees C
FuSa	ASIL B

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