



DLEVC-5.XDC - DC CloudSmart Controller – G2V & V2G

The multifunctional EV DC charging station controller has been especially designed for the European market. Using this controller, a complete charging station supporting CCS/CHAdeMO/AC-Type 2 IEC-15118 can be built. A charging station up to 300KW can be built using the multi-power module CAN-bus. The module can be managed by a Cloud back-office software using OCPP 1.5/1.6/2.0. Load management for smart grid applications is implemented in the embedded software. A Local Micro Smart Grid function can be set-up adding two extra kwh meters on the mod-bus. The available power for charging is calculated real-time on the bases of public grid and/or the Solar/wind energy power. This controller can be connected to other EVCAC / EVCDC modules by CAN bus (slave module mode) to extend the number of outlets up to 24.

Key Features

- CCS, CHAdeMO & Type 2
- kWh Meter - 2 x S0/Modbus/RS485/P1 (configurable)
- Built-in GPRS / GSM modem for back-office connection
- 2 x mechanical lock output Mennekes/Bals/Scame/Phoenix
- GPS positioning for accurate location on map
- CAN bus for master-slave and peripherals
- 2 x RCD trip detect
- Contactor failure detect
- 2 x serial connection – RFID / Barcode reader
- Output Power sensing
- OCPP 1.5/1.6/2.0 Support
- Cloud back-office by OEM using OCPP
- Immunity IEC 61000-6.2 Emission IEC 61000-6.3
- Compatibility: EV-ready / PTB Eichrecht
- Galvanic isolated output voltage and current monitoring
- 2 x CAN-bus interface. Up-to 30 nodes for Power modules

Technical Specifications

Hardware	
Enclosure	DIN-rail box - PVC
Dimensions (LxWxH)	90 x 82 x 45mm (103 x 110 x 45) mm incl. connectors)
Weight	275 g
Temperature range (ambient)	-25°C - +70°C
Humidity	5% - 95%
Protection grade	IP20
Pluggable connectors	3 x 16
Embedded microcontroller	NXP ARM controller
Penta band 3G/GSM modem	850/900/1800/1900/2100 MHz
Ethernet Extension	Yes
GPS global positioning	Yes
Onboard temperature monitoring	Yes
Power supply	12 VDC
Power consumption	3 Watt
Interfacing	
RFID	2 x RS232
Buzzer	Integrated
Tilt sensor input	1 x (optional)
kWh meter	2 x S0/Modbus/RS485/P1 (configurable)
Output Power sensing	Yes
Display	Via Ethernet
Master/slave	Controlling up to 23 slave modules
Lock controller	2 x mechanical lock output e.g. Mennekes/Bals/Scame/Phoenix
Electric Vehicle Communication	CSS /Chademo IEC 15118-2, Type 2 IEC 62196-2, supporting mode 3 charging. IIEC 61851-23 Vehicle Communication V2G-support
LED	2 x triple LED output
CAN-bus	2 x CAN-bus interface. Up-to 30 nodes for Power modules
RCD status	2 x RCD trip detect
Contactors status	Contactors failure detect
Contactors status	2 x DC contactor switch output
Earth Insulations test	Yes
	Remote firmware update / Local EVC manager via USB/CAN
	OCPP 1.5/1.6/2.0
	Cloud back-office by OEM using OCPP
Conformity	
	Immunity IEC 61000-6.2 Emission IEC 61000-6.3
	Compatibility: EV-ready / PTB Eichrecht
Part Number	
	DLEVC-5.XDC

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