

## UniCharge EVCC-L Chargecontroller



Symbolfoto © 2022 – EBE UniCharge EVCC-L Solo,  
EBE Mobility & Green Energy GmbH

The **EBE UniCharge EVCC -L** is a Charge Controller according to ISO IEC 61851-1 for AC charging stations, for controlling and monitoring (OCPP Communication) the charging processes of electric vehicles. The Charge Controller is developed and designed according to the latest requirements for electromobility applications and e-charging station solutions. The Charge Controller has extensive connections for charging control according to IEC 61851-1, Ethernet / LAN interface, GPIOs, digital inputs and outputs, as well as serial interfaces RS232 and RS485 interfaces, via which status information and control signals can be read or written can become. Individual, modular expansion option of the EVCC-L base module (10-2000-0010) with an LTE/4G plug-on module (10-2001-0110) and/or the plug-on module for an additional 2nd Charging Point (10-2001-0020). An interface (Modbus RTU and Modbus TCP) for smart home integration and local static / dynamic load management as well as the optional activation of a customer dashboard for an overview of the charging processes optimally complement the applications and possible uses.

## Variations and Asseby Options

	EVCC - L Basic Module				Plug-on and expansion modules	
	Solo	Duo	Solo LTE	Duo LTE	2. Charge Point	LTE/4G Module
<b>Title</b>	EVCC-L Solo	EVCC-L Duo	EVCC-L Solo LTE	EVCC-L Duo LTE		
<b>Artikel Nr.</b>	10-2000-0010	10-2000-0012	10-2000-0020	10-2000-0022	10-2001-0020	10-2001-0110
Car Communication	IEC 61851-1:2017, Annex A/B - Mode 3 conform					-
<b>Numbers of Charge Points included</b>	1	2	1	2	1	-
Mobile Communication	-	-	✓	✓	-	✓
OCPP-Communication	✓	✓	✓	✓	-	✓
OCPP 1.5 SOAP	✓	✓	✓	✓	-	✓ optional as UCB 61 10-2001-0160 available
OCPP 1.6 JSON	✓	✓	✓	✓	-	-
Prepared for „eichrechtskonforme“ invoice	✓	✓	✓	✓	-	-
<b>Plug-on and expansions modules</b>						
2. Charge Point	10-2001-0020	-	1	-	1	✓
LTE/4G Module	10-2001-0110	-	-	1	1	✓

\* planned for 2023, optional expansion modules, \*\* optional

The EVCC-L Basicmodule is expandable with modular plug-on and extension modules:

2. Charge Point (10-2001-0020 / 10-2001-0021) and with the LTE/4G Module (10-2001-0110)

The required housing variants must be considered for extensions.

## UniCharge EVCC-L Chargecontroller

The **EBE UniCharge EVCC-L Charge Controller** is designed for installation and use in standard-compliant, tested and certified stationary conductive AC charging devices for electric vehicles in accordance with ISO IEC 61851-1. The Charge Controller is used to regulate and monitor the power supply for mode 2 / mode 3 charging processes in electric vehicles.

### Features & Functions

	EVCC-L Solo	EVCC-L Duo	EVCC-L Solo LTE	EVCC-L Duo LTE
Article Number	10-2000-0010	10-2000-0012	10-2000-0020	10-2000-0022
Car Communication	IEC 61851-1:2017, Annex A/B - Mode 3 conform			
Numbers of Charge Points	1	2	1	2
Mobile Communication 4G LTE, 3G/2G fallback	-	-	✓	✓
Backend Communication OCPP 1.5 (SOAP), OCPP 1.6 (JSON)	✓	✓	✓	✓
OCPP Communication Master	✓	✓	✓	✓
Multipoint Single- and Cluster Operation mode	✓	✓	✓	✓
Numbers of Charge Points max.	20	20	20	20
Slave Charge Controller EVCC 3	✓	✓	✓	✓
Slave Charge Controller EVCC-L	✓	✓	✓	✓
Configuration Webinterface	✓	✓	✓	✓
local, static/dynamic Loadmanagement Master/Client	✓	✓	✓	✓
Backend Home*** - Dashboard Overview charging sessions	optional SW-Extension	optional SW-Extension	-	-
Prepared for „eichrechtskonforme“ invoice *	✓	✓	✓	✓
Prepared for direct payment (Terminal**/***)	optional	optional	optional	optional
Giro-e supported***	optional	optional	optional	optional
<b>Anschlüsse / Schnittstellen:</b>				
Ethernet / LAN (1) - OCPP - Modbus TCP* - Webinterface / webconfig - dashboard backend Home***	✓	✓	✓	✓
RS485 Serial Port (2) - Modbus RTU (Energy Meter*) - EBE EVCC Binary	✓	✓	✓	✓
RS232 Serial Port (2) - RFID / NFC Card Reader***	✓	✓	✓	✓
Connection for RCMU for each CP	✓	✓	✓	✓
GPIOs (CP/PP, RGB LEDs, locking)	✓	✓	✓	✓
IN analog / digital (E1-E2) - Energy Power Meter S0	2	2	2	2
OUT analog / digital (A1 - A4)	4	4 / 4	4	4 / 4
Integrated power supply AC 230V~	✓	✓	✓	✓
additional GPIOs, for example: - Phasemonitoring*** - Door contact***	-	-	✓	✓
USB A (Host)	✓	✓	✓	✓

\*provide suitable and approved Modbus Energy Power Meter

\*\* separate payment terminal necessary (current approved: NAYAX)

\*\*\* optional

Accessories Antennas, RCMUs, RFID/NFC Reader, RS485 Hubs, Energy Power Meter, additional Connection cables must be ordered separately.

# UniCharge EVCC-L Chargecontroller

## Connections

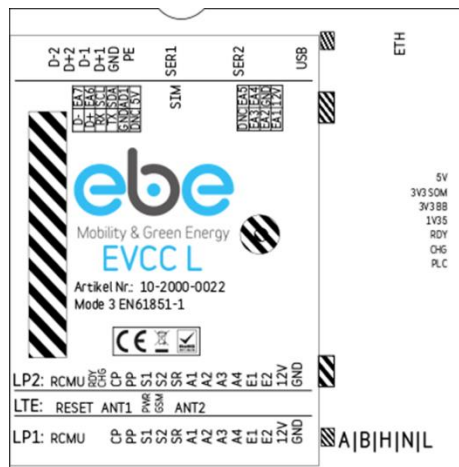


Illustration EVCC-L Duo LTE (Article Nr.: 10-2000-0022)

## Operation Modes



The Chargecontroller features the following operation modes:

- Online via OCPP / offline – standalone:
  - Charging release configurable:
  - Charging always allowed
  - Charging level controlled (key switch)
  - Charging level pulse controlled (key button)
  - RFID Authentication, optional via Backend Home
- Single-, and Cluster operation Mode, Multipoint Solutions (Master Slave)
- local, static/dynamic Loadmanagement
- Communication protocols via ETH / LAN:
  - Backend Communication, OCPP 1.6 JSON
  - Modbus TCP
- RS485-Bus Operation via Bus-Master
  - Modbus RTU and EBE EVCC Binary Bus Protokoll

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