

2 years
manufacturer warranty

HARDY BARTH
emobility



cPP2

charging station

The charging station
for companies, municipalities and cities*










*For the public sector also available as
a legal-for-trade version

www.echarge.de

the local load and energy management

More schemes can be found on our website at: www.echarge.de/de/service/download



-  Local **overload protection** with compatible system¹⁾
-  Operating states via **LED indicators**
-  Charge control and visualization via **web interface & app**
-  **Charging release RFID**
-  **MID energy meter** (already integrated) | **Calibration law compliant meter**
-  Dynamic **Load & energy management**
 - Between various charging points
 - Excess PV charging¹⁾
 - Peak Shaving¹⁾
 - Smart Grid Ready
-  **Backend usage** (optional)
 - mobile communication
 - OCPP 1.6

¹⁾The following manufacturers are compatible with our charging station

Photovoltaik



Load and energy management.



BackEnd



cPP2 charging station

- for the semi-public & public area
- easy installation (thanks to optional concrete foundation)
- Power from 11kW to 44kW
- Operating states via LED display
- Dynamic load and energy management
 - between various charging points
 - PV controlled charging (3-phase only)
 - Load peak avoidance
 - Smart Grid Ready
- Blending with CPμ2 and CPH2 is possible in the loading system
- Visualization via web interface & app
- Energy meter (MID-compliant or in conformity with calibration law)
- GSM communication module (optional or received as standard)
- Lock release by RFID card reader
- Concrete foundation, plinth, plinth filler (optional)
- Charge log integrated to record your charging processes
- Concrete foundation (free-standing installation) **(3M40420)**
- Various bases
 - 40mm **(3M40430)**, 100mm **(3M40434)**, 200mm **(3M40431)**
- Base filler granules **(3M40460)**

Technical data

Type	2T22	2T44	4T44
Connection terminals	1x terminal block, max. 5x35mm ² (L1, L2, L3, N, PE)		
Rated voltage / frequency	230V, 400V, 3-phase, 50Hz		
Rated current	32 A	63 A	63 A
Power supply	22 kW	44 kW	44 kW
Charging power max.	2 x 11 kW / 1 x 22 kW	2 x 22 kW	2 x 22 kW / 4x11 kW
Charging socket/ cable acc. IEC 62196-2	2x Type-2 32A cable or 2x Type-2 socket	2x Type-2 32A cable or 2x Type-2 socket	2x Type-2 32A cable and 2x Type-2 socket or 4x Type-2 socket
Protection			
Type	2T22	2T44	4T44
DC fault current detection	electronic, DC-RCM, IΔn d.c. ≥ 6 mA, per charging point		
Circuit breaker and residual current circuit breaker (integrated)	2x RCBO type A C32 / 0,03	2x RCBO type A C32 / 0,03	4x RCBO type A C32 / 0,03

Hardy Barth Smartmeter eCB1-MP+

Our smartmeter eCB1-MP+ for foreign systems enables full PV excess charging and at the same time prevents an overload of your house connection, thanks to our dynamic real-time load and energy management.

²⁾As an alternative to our Smartmeter eCB1-MP+, one of the following systems can be used:

- Fronius (Gen24, Smartmeter, DM2, EMIL)
- SMA (Homemanager 2.0/ SMA Energy Meter)
- Kostal (KSEM)
- Energy management system (Aski, Fenecon, Smart1)
- RCT
- Goodwe (inverter)
- Sungrow (inverter)



with current folding transformers up to 1000A

Features

RGB LED's	Operating status, Red: Malfunction, Green: Ready, Yellow: Vehicle connected, Blue: Charging
Energy meter	MID-compliant (or calibration law-compliant), integrated per charging point
Load and energy management	Dynamically between charging points
Excess PV charging	With compatible system (3-phase only)
Authentication	RFID Mifare DESFIRE and LEGIC Prime & Advant
Charge release	Local RFID, Webinterface, Backend (optional)
Communication/ Data connection	PLC (PowerLAN), Ethernet, Mobile radio (for back-end connection) optional or included as standard (calibration right)
Vehicle communication	IEC 61851-1 „Mode 3“ and ISO 15118 Ready
Power control	Adjustable via web interface or rotary switch, 6-32 A
Control according to §14a EnWG	Potential-free utility contact / API interface
Overvoltage protection	yes (type 1 and 2)
Charging socket according to IEC 62196-1	2x type 2 socket or charging cable

Conditions / Standards

Operating temperature	-25 °C to 50 °C
Storage temperature	-25 °C to 85 °C
Relative humidity	5 to 95%, no condensation
Standards	IEC 61851-1, Mode 3
Class of protection	II
Overvoltage category	III
Degree of pollution	3
Degree of protection (housing)	IP44
Maximum elevation	≤ 2,000 m NHN

Housing

brand	cPP2
Dimensions (mm)	H: 1480mm B: 440mm T: 203mm
housing	Galvanized sheet steel, powder coated, lockable (swing lever with double locking cylinder)
Color	Door RAL 7035 (light gray) Body RAL 9005 (deep black)
Weight charging station	47kg 47kg 55kg
Item number	3M1xxxxx