HARDY BARTH
emobility

cPH2
Wallbox

The Wallbox for
the private and
semi-public sector

EUPD RESEARCH
TOP BRAND
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TOP BRAND
WALLBOX
GERMANY
2022

*For the public sector also available as
a legal-for-trade version from Q3/2022

www.echarge.de

cPH2
Wallbox

The Wallbox for the
private and semi-public sector

Local **overload protection**
with compatible system[1]

Operating states
via **LED indicators**

Charge control and visualization
via **web interface**

Charging release (optional)
e.g. RFID / key switch

MID energy meter
(already integrated)

Dynamic **load management**
- Between various charging points
- Excess PV charging[1]
- Peak Shaving[1]
- Smart Grid Ready

Backend usage (optional)
- mobile communication
- OCPP 1.6

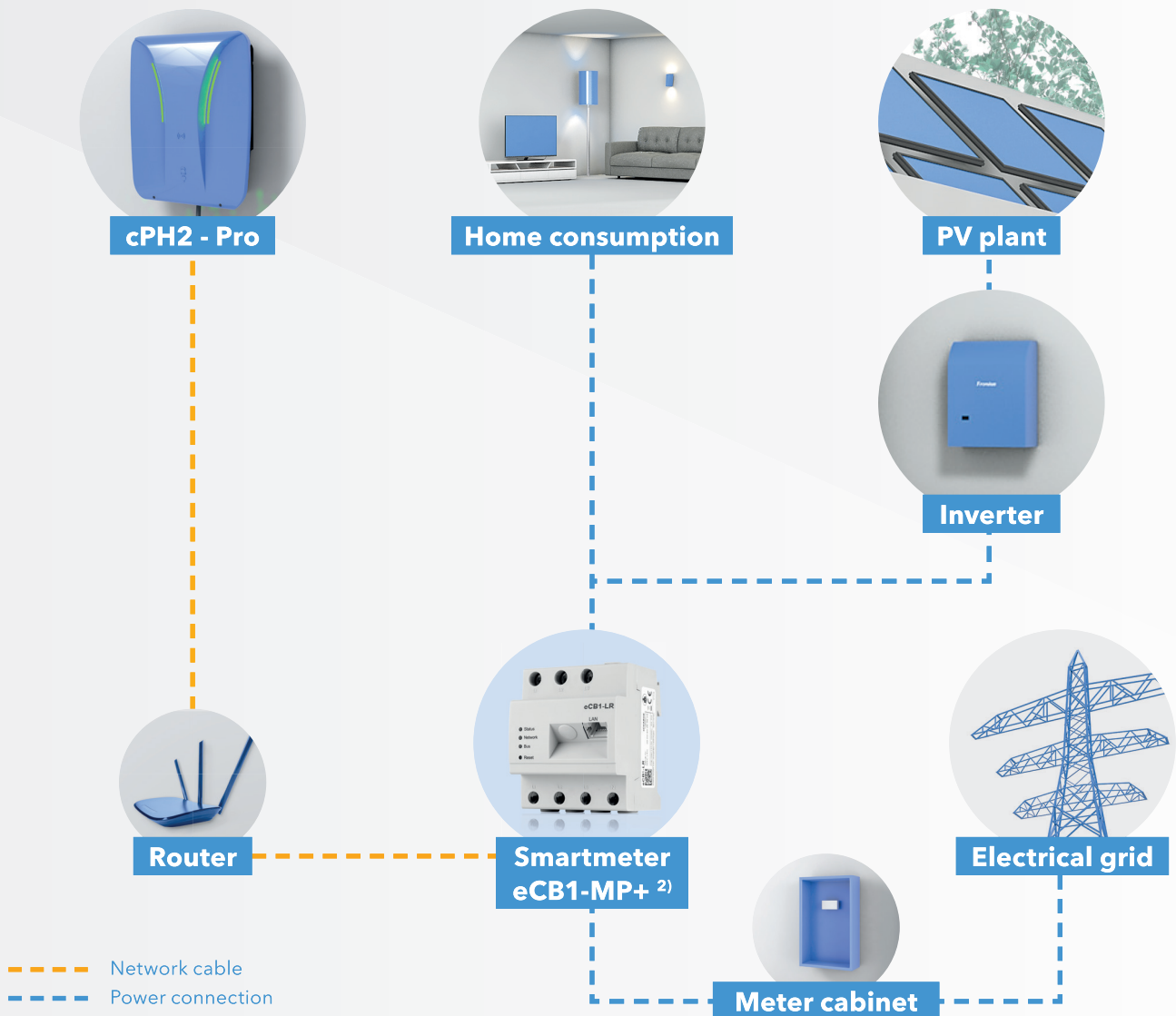[1] our charging stations are compatible with the following manufacturers

photovoltaic

Fronius **KOSTAL** Solar Electric **SMA** **RCT** power

Load management

HARDY BARTH emobility **ASKI** energy **fenecon** **smart 1** THE SMART ONE **Fronius** EMIL

Excess PV charging

cPH2 - Pro

Home consumption

PV plant

Inverter

Router

**Smartmeter
eCB1-MP+** [2]

Electrical grid

Meter cabinet

- - - - Network cable
- - - - Power connection

Hardy Barth Smartmeter eCB1-MP+

Our smartmeter eCB1-MP+ enables full PV excess charging and
at the same time prevents an overload of your house connection,
thanks to our dynamic real-time load 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 (compatible as of Q3/2022)

Optional

with current folding
transformers up to 1000A

cPH2 Wallbox

· For the private and semi-public sector
· Easy assembly
· Charging power up to 11 kW / 22 kW (3 phase)
· 2 charging points per Wallbox available
· Choice between charging socket or variousfixed charging cables Type 2 acc. IEC 62196-2

optional accessories

· Switch 5-port (included as standard with cPH2 2T22 from Q3/2022)
· RFID module (authentication and release)
· GSM communication module (mobile radio for backend usage)
· Key switch (Eco/ Quick charge and charge stop)
· Stele, pedestal, concrete foundation (free-standing installation)
· Earthed socket 230 V, 6 A (charging according to IEC 61851-1 „Mode 1")
  (without load management and MID energy meters)

Technical data

Power supply / Charge

Type	1T11	1T22	2T22	2T44
Connection terminals	1x terminal block, 5x 6 mm² (L1,L2,L3,N,PE)		2x terminal block, 5x 6 mm² (L1,L2,L3,N,PE)	
Rated voltage / frequency	230 V | 400 V 3 phase ; 50 Hz			
Rated current	16 A	32 A	2x 16 A | 1x 32 A	2x 32 A
Power supply	11 kW	22 kW	22 kW	44 kW
Charging power max. (3 phase)	11 kW	22 kW	2x 11 kW | 1x 22 kW	2x 22 kW
Charging socket/ cable acc. IEC 62196-2 automatic socket release in case of mains voltage failure	Type 2, 20 A cable or Type 2 socket	Type 2, 32 A cable or Type 2 socket	2x Type 2, 32 A cable or 2x Type 2 socket	

Protection

DC fault current detection	electronic, DC-RCM, IΔn d.c.≥ 6 mA, per charging point			
MCB per charge point* (required on site)	16 A, 3p	32 A, 3p	2x 16 A, 3p | 2x 32 A, 3p	2x 32 A, 3p
RCD leakage circuit breaker (required on site)	RCD Type A, 40 A, 30 mA		2x RCD Type A, 40 A, 30 mA**	

* C-characteristic advised   **Special case: For two charging points and only one supply line, an RCD Type B or Type EV is mandatory.

Features

RGB LEDs	Shows operating status
Energy meter	MID conform, per charging point
Load management / Excess PV charging	Dynamically between charging points with compatible system
Charge release (optional)	local RFID (Mifare DESFIRE und LEGIC Prime & Advant), key switch, OCPP 1.6
Communication / Data connection	PLC (PowerLAN), Ethernet, optional mobile communication (for backend connection)
Vehicle communication	IEC 61851-1 „Mode 3" and ISO 15118 Ready
Power control	Adjustable via web interface or rotary switch, 6-32 A

Conditions / Standards

Operating / Storage temperature	-25 °C to 50 °C / -25 °C to 85 °C
Relative humidity	5 to 95%, no condensation
Standards	IEC 61851-1, IEC 61851-21, IEC 61851-22
Class of protection / Overvoltage category	II / III
Degree of pollution	3
Degree of protection (housing)	IP54

Housing

Dimensions [mm]	497 x 397 x 166 (H x L x W)
Color / Wallbox weight	anthracite | silver gray / approx. 12 - 15 kg
Item number	3M5XXXXX

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