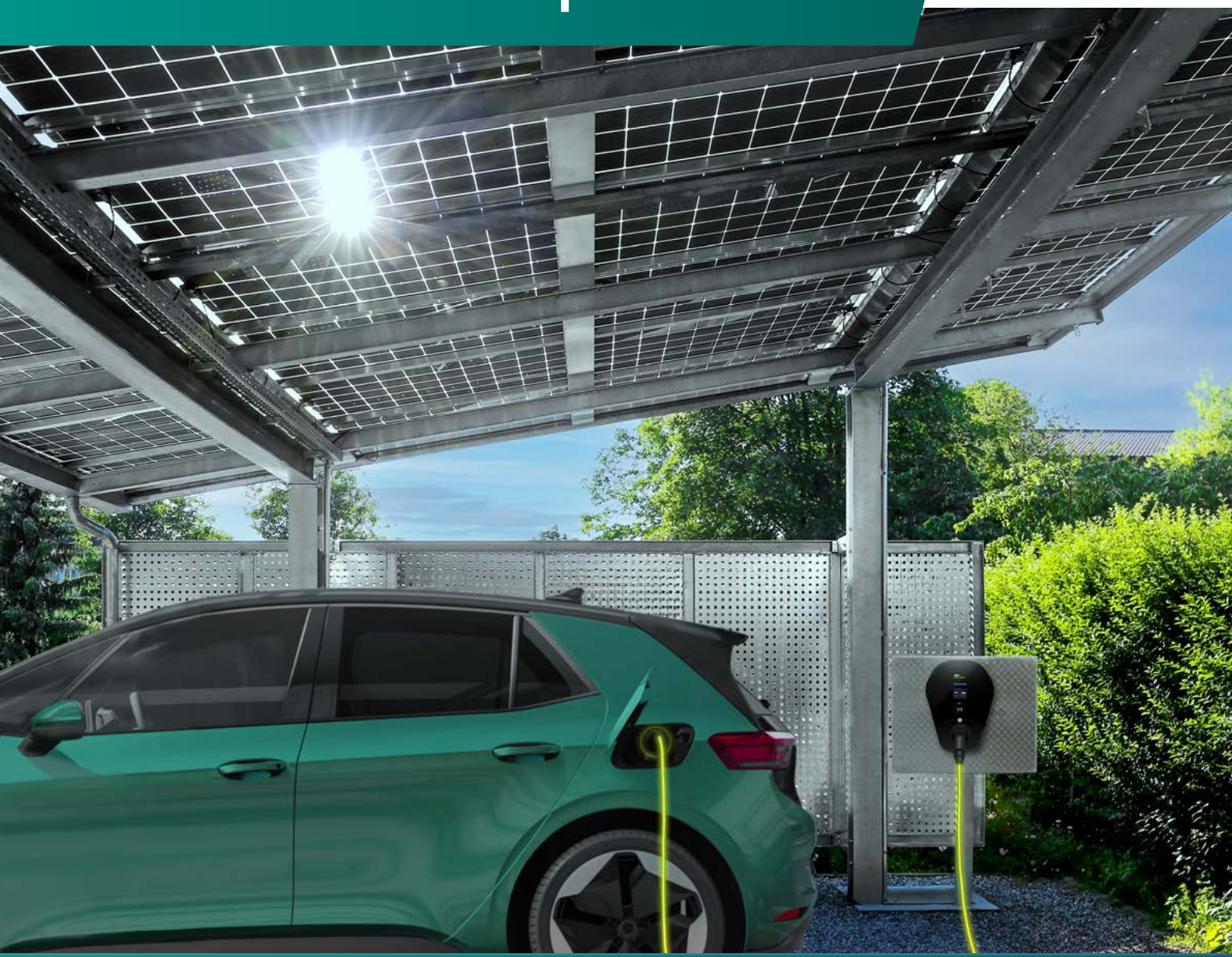
ONE SYSTEM SOLUTION FOR ELECTROMOBILITY & PV.

connected to power



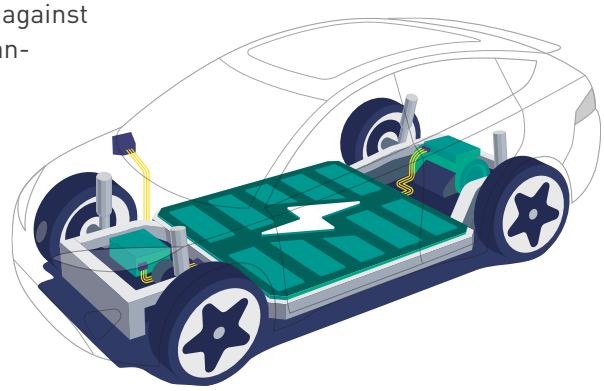

connected to power.

TABLE OF CONTENTS.
EVERYTHING AT A GLANCE.

Electromobility your daily companion.
Charging Electric and PHEV vehicles occupies an important place in our everyday lives and places new demands on the entire energy supply. The increasing number of PV systems (some with storage functionality) enables convenient charging of electric vehicles at home. Wallboxes, charging stations, EV charging cables and distribution boxes will become important components of the future power grid. Vehicles can be charged easily and smartly at the electric „pump".

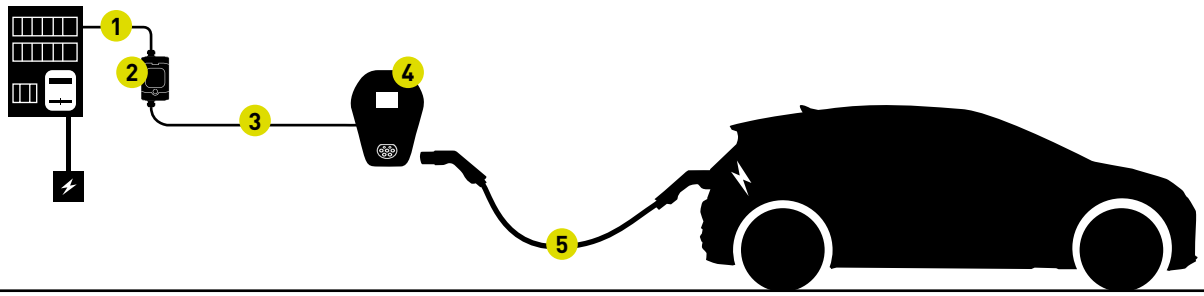
Compact. Smart. Powerful.
With the EVtap® charging cable, HIK and HIS offer a special product with clear design features, attractive, functional and compatible with most makes of car and applications.

Leading by a distance. Indispensable.
Our specially developed EVtap® charging cable is an ideal companion for every electric vehicle and is available in different variants and lengths. Options for wallbox and ICCB manufacturers are available. We can configure variants such as open cable ends, spiralised, CEE or Schuko plugs on request. The protective caps offer protection against water and dirt even in adverse conditions. The highest quality standards are the bedrock of the production process and the choice.



ONE SYSTEM.
MANY POSSIBILITIES.

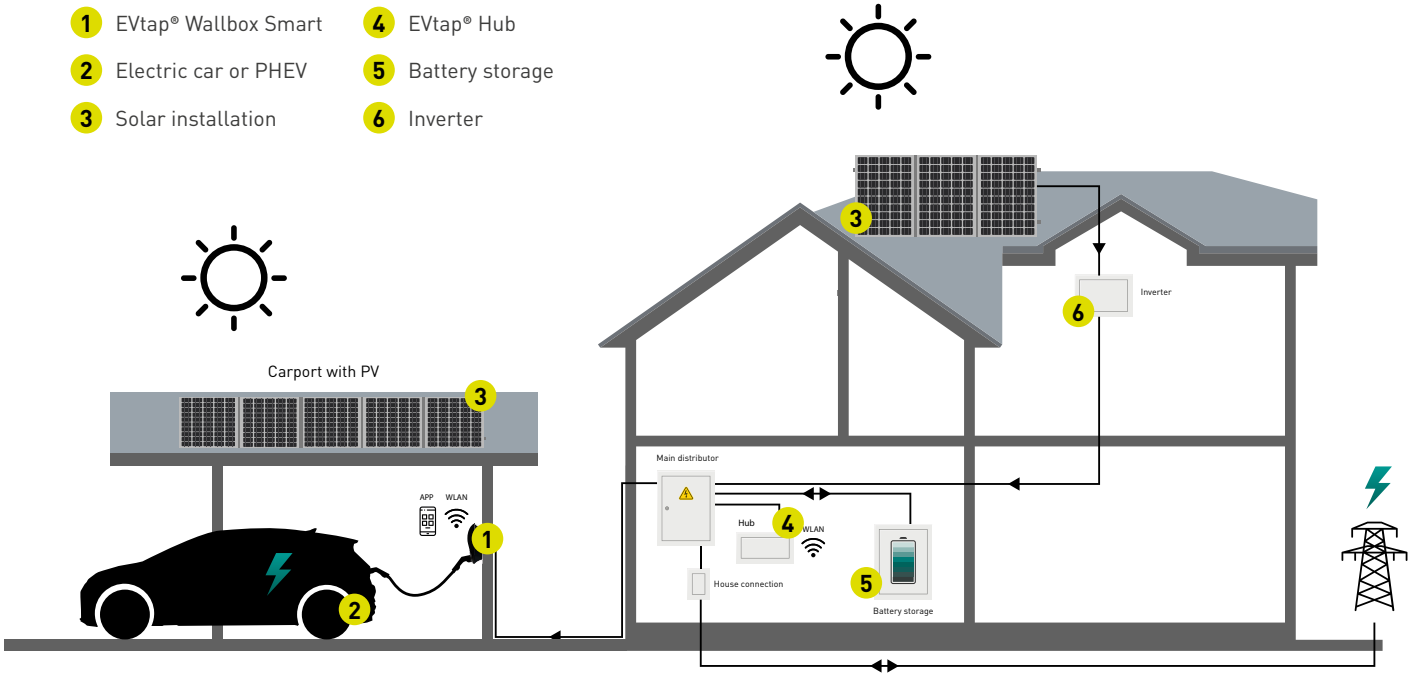
From the main distributor to your electric vehicle, everything from a single source



EVtap® system components

1. Main to the sub-distribution board
2. Sub-distributor in 2 variants
3. Sub-distributor to wallbox
4. Wallbox
5. Charging cable for electric or hybrid vehicle

1. EVtap® Wallbox Smart
2. Electric car or PHEV
3. Solar installation
4. EVtap® Hub
5. Battery storage
6. Inverter



APP | OCPP 1.6 | Load management system

connected to more.

WALLBOX SMART 11/22kW*

TECHNISCHE DATEN.

Product number	753836 / 753842
Body material	PC
Body colour	Black
Lifetime	Switching frequency > 10.000
Weight	5kg
Dimensions (mm)	380 x 288 x 41
Mounting method	Wall mounting / on a mounting stand
Guarantee	2 years
Ambient temperature	-40°C to +70°C
Air humidity	5% to 95% (non-condensing)
Certificates	CE, RoHS
Standards	IEC 61851-1, IEC 62196-2, IEC 14443A/B

Performance specifications	
Input	1-/3-phase
Nominal voltage	400V AC
Rated current	16A (11kW) / 32A (22kW)
Frequency	50/60 Hz
Output voltage	400V AC
Maximum current	16A (11kW) / 32A (22kW)
Nomial power	22kW (can be throttled)
Standby power consumption	2W
Protocol	Mode 3

Communication	
Wi-Fi	Yes, 2,4 GHz
LAN	Yes, RJ-45
OCPP	OCPP 1.6J
App connection	Yes, with EVtap Connect App (iOS and Android)
Web portal connection	Yes
Software update	Yes (web, App, USB)

Interface	
Charging port	Type 2 according IEC 62196-2
Screen	2,8" LCD display
Indicator	RGB LED-strips
Access protection	RFID (ISO/IEC 14443A/B)
Multifunctional button	Configurable (e.g., loading, turning screen on/off)
Accessories	EVtap Hub | CT 3 phase 100 A | CT 3 phase 800 A
Charging Cable	3m, 5m and 7m

Safety	
Residual current operated device / RCD	30mA AC & 6mA DC
Electrical protection	Overcurrent protection, ligthning protection, over/under voltage protection, over/under temperature protection, residual current protection
Protection type	IP55
Shock resistance level	IK08
MID Meter	optional

Photovoltaic excess charging – charge electric vehicles efficiently with solar energy
Since the electricity prices continue to rise and the feed-in tariffs for photovoltaic systems are falling at the same time, it makes more and more sense to charge the electric vehicle with solar power from your own solar system using a wall charging box. This is possible in connection with the EVtap Load Management HUB.

Charge multiple vehicles at one location?
The integrated load management system of the EVtap Wallbox Smart series ensures that the available charging power is optimally distributed to all electric vehicles to be charged. This not only saves you the high investment costs for expanding your grid connection, but also prevents peak loads.

Convenient and easy to control via the app
The EVtap Connect App offers the possibility to control your charging processes via Wi-Fi or from the mobile network (Internet access required). Evaluation and archiving of the charging history as well as user administration and the configuration of the charging power are other important functions of the app. In addition, the EVtap Wallbox offers programmable RFID access protection.

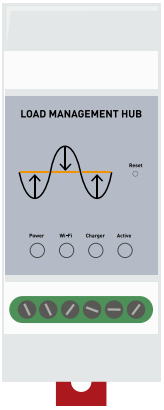
Compatible with various backend systems via OCPP 1.6
Thanks to the built-in IEC standard 61851-1, the EVtap Wallbox Smart is compatible with almost all commercially available electric and hybrid vehicles in Europe. Furthermore, the wallbox can be integrated into your own backend with the help of OCPP1.6 if required.

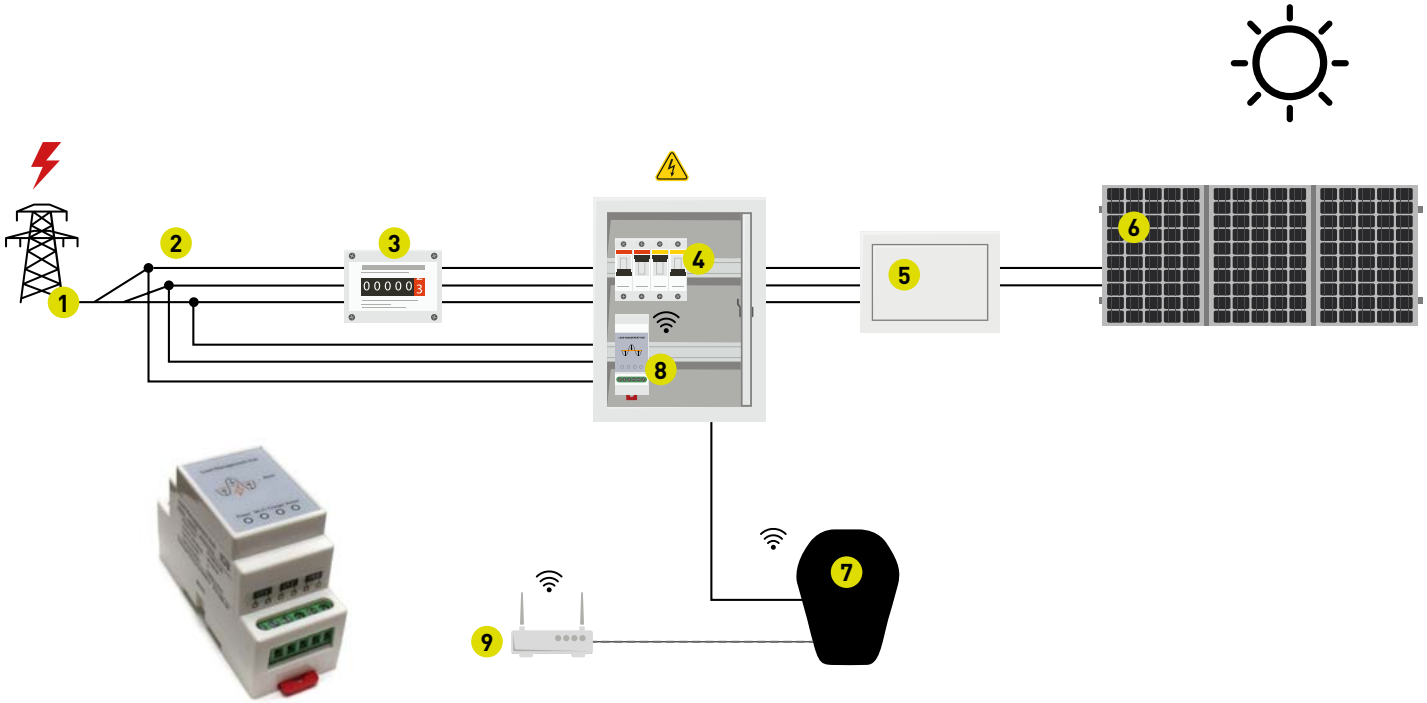
* subject to technical changes

EVTAP LOAD MANAGEMENT HUB

OPTIMAL ENERGY FLOW

- Load management hubs allow charging stations to change their charging capacity depending on the total electricity consumption at a location.
- Useful in home applications where the incoming supply is limited and there is a possibility of exceeding that capacity if all devices including the EV charging station are running at the same time. This results in the advantages of dynamic load management: the avoidance of expensive load peaks and no overloading of the building connection.
- Load management hubs are used with the supplied CT clamps to measure power consumption in real time and communicate to the charging station the maximum current to be made available for EV charging.
- WiFi connection or RS485 connection with the (master) charger.
- The hub creates its own Wi-Fi access point, allowing for easy local configuration using a smartphone, tablet or PC.
- Compatible with EVtap® Smart Wallbox charging stations.
- The hub has three operating modes to choose from: Full, Solar Assist and Solar.
- Manufacturer-independent of future or existing PV systems.
- Charge electric cars with up to 100% solar power and thereby optimize self-consumption.
- Flexible installation of additional charging points without investing in expanding the grid connection OCPP interface for remote monitoring.





1 Power grid
2 Clamp meters
3 Power meter
4 Fuses
5 Inverter
6 PV module
7 Wallbox
8 Hub
9 Router

Technical data	EVtap Hub
Model	LMH (Pro)
Installation	DIN rail
Connectivity	RS485 / WLAN
Communication protocols	OCPP 1.6 JSON / Modbus
Downstream interface	CT clamp AD interfaces x 4
Display	Voltage status, internet status, charging status, load balancing status
Rated current (CT)	100A / 800A
Voltage	AC 230V
Power consumption	<150 mA
Working temperature	-40°C to +60°C
Humidity	5° to 95%
Dimensions (mm)	95 x 78 x 76
Weight (kg)	0,45
Package contents	1x Hub, 3x Power converter (CT)


LCD display
On/Off switch
LED status indicator
App controlled
Wallplug
EV Charger
11.0 KW
connected to power

WALLBOX BASIC 11kW*

TECHNICAL DATA.**

Item number	EV-WB-11-00-03-AL
Standard	IEC 61851, IEC 61439-7
Nominal voltage	AC 230V / 400 V
Rated frequency	50 / 60 HZ
Charging capacitiy	11 kW
Rated current	16 A
Phases	3
Connection type	Type 2 according to IEC 62196-2
Charging mode	Mode 3
Residual Current operated Circuit-Breaker (RCCB)	Typ A + 6mA DC
Degree of protection/ protection class IP	IP66
Standby consumption	<8 W
App available	YES
RFID available	NO
Wifi / Bluetooth available	YES
Display	3,5¨ (inch)LCD color display
LED status indicator light	YES (green)
Overvoltage protection	YES
Overload protection	YES
Short circuit protection	YES
Temperature monitoring	YES
Lightning protection	YES
Power adjustment	YES via APP
Dimensions	29,5 / 19,5 / 6,5 cm
Weight	6 – 8 Kg
Ambient air temperature	-40°C to +75°C
Altitude	max. 2000m above sea level
Relative humidity	max. 95% (non-condensing)
Mounting method	wall mounted
Certificate	CE, RoHS

EVSE Master

Laden im App Store

JETZT BEI Google Play

Convenient and easy to control via the app
The EVSE Master App offers the function to enable you to control the starting and stopping of your charging processes (via WLAN or Bluetooth). Evaluation and archiving of the charging history as well as user management and configuration of the charging power are further important functions of the app.

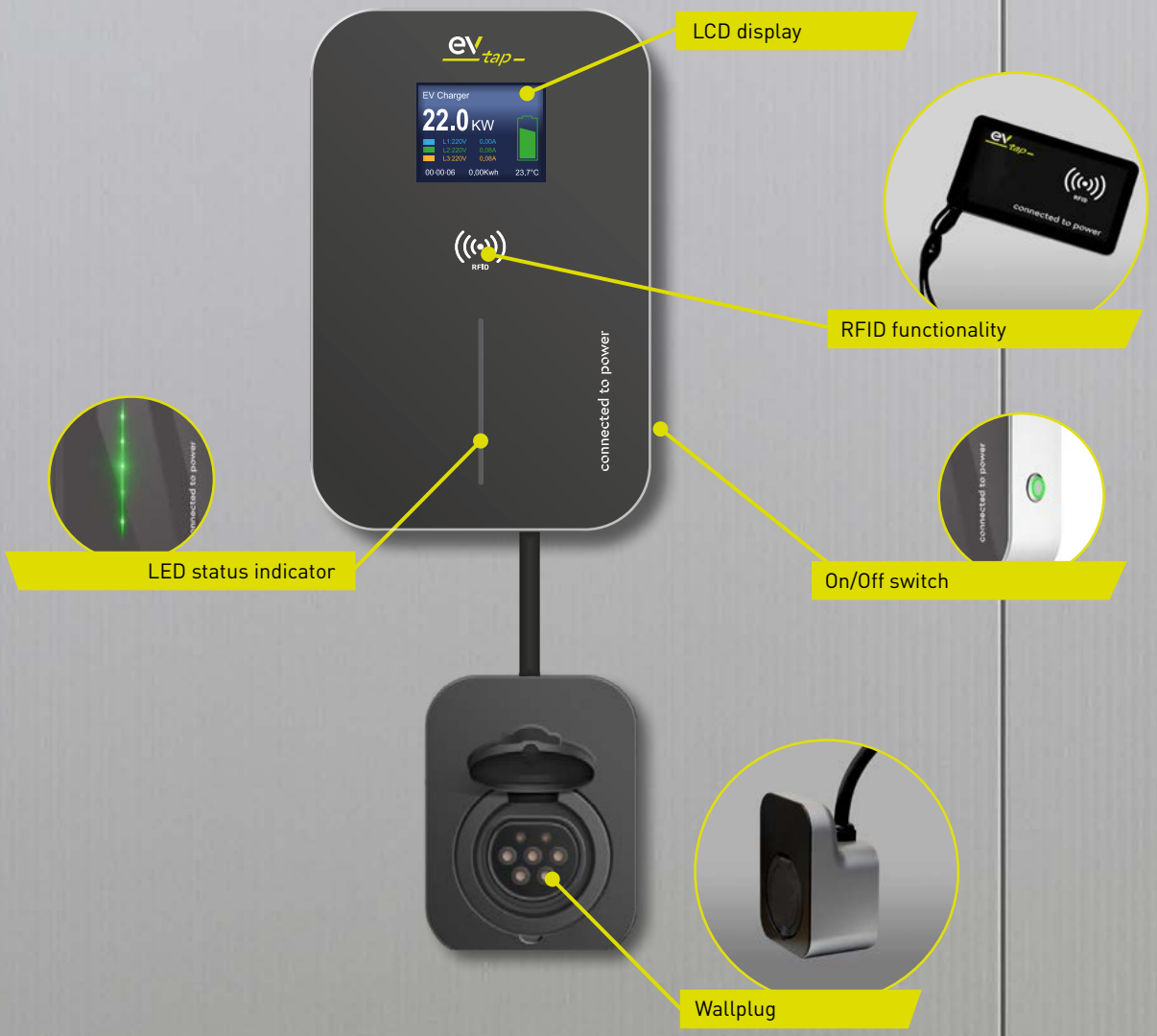
EV+ PHEV

Charges most Electric and Plug-in Hybrid vehicles.
Thanks to the wide range of charging capacity options available, the EVtap® Wallbox is compatible with almost every electric car model available.

Ensures your battery is fully charged every morning when you leave the house.
Avoid the stress of not being able to find an available charging station and using cost intensive, public charging stations.

* subject to technical changes

** subject to the conditions and the approval of the KfW


LCD display
EV Charger
22.0 kW
RFID
connected to power
RFID functionality
LED status indicator
On/Off switch
Wallplug

WALLBOX BASIC 22kW*

TECHNICAL DATA.

Item number	EV-WB-22-01-03-AL
Standard	IEC 61851, IEC 61439-7
Nominal voltage	AC 230V / 400 V
Rated frequency	50 / 60 HZ
Charging capacitiy	22 kW
Rated current	32 A
Phases	3
Connection type	Type 2 according to IEC 62196-2
Charging mode	Mode 3
Residual Current operated Circuit-Breaker (RCCB)	Typ A + 6mA DC
Degree of protection/ protection class IP	IP66
Standby consumption	<8 W
App available	NO
RFID available	YES
Wifi / Bluetooth available	NO
Display	3,5'' (inch)LCD color display
LED status indicator light	YES (green)
Overvoltage protection	YES
Overload protection	YES
Short circuit protection	YES
Temperature monitoring	YES
Lightning protection	YES
Power adjustment	NO
Dimensions	29,5 / 19,5 / 6,5 cm
Weight	6 – 8 Kg
Ambient air temperature	-40°C to +75°C
Altitude	max. 2000m above sea level
Relative humidity	max. 95% (non-condensing)
Mounting method	Wall mounted
Standards	CE, RoHS

Practical user management thanks to RFID technology
Modern access protection via RFID chip card. Simply use your car charging cable, connect it to the E-car and the wallbox. After activation via the RFID card, the charging process starts immediately. This charging station is suitable for all types of parking spaces.

All-round safety for battery and vehicle
Integrated temperature monitoring, voltage fluctuation protection and DC fault current detection ensure that your battery is completely protected and can be used most effectively. By reducing external influences, the longest possible service life and reliability for both battery and vehicle are ensured.

EV+ PHEV

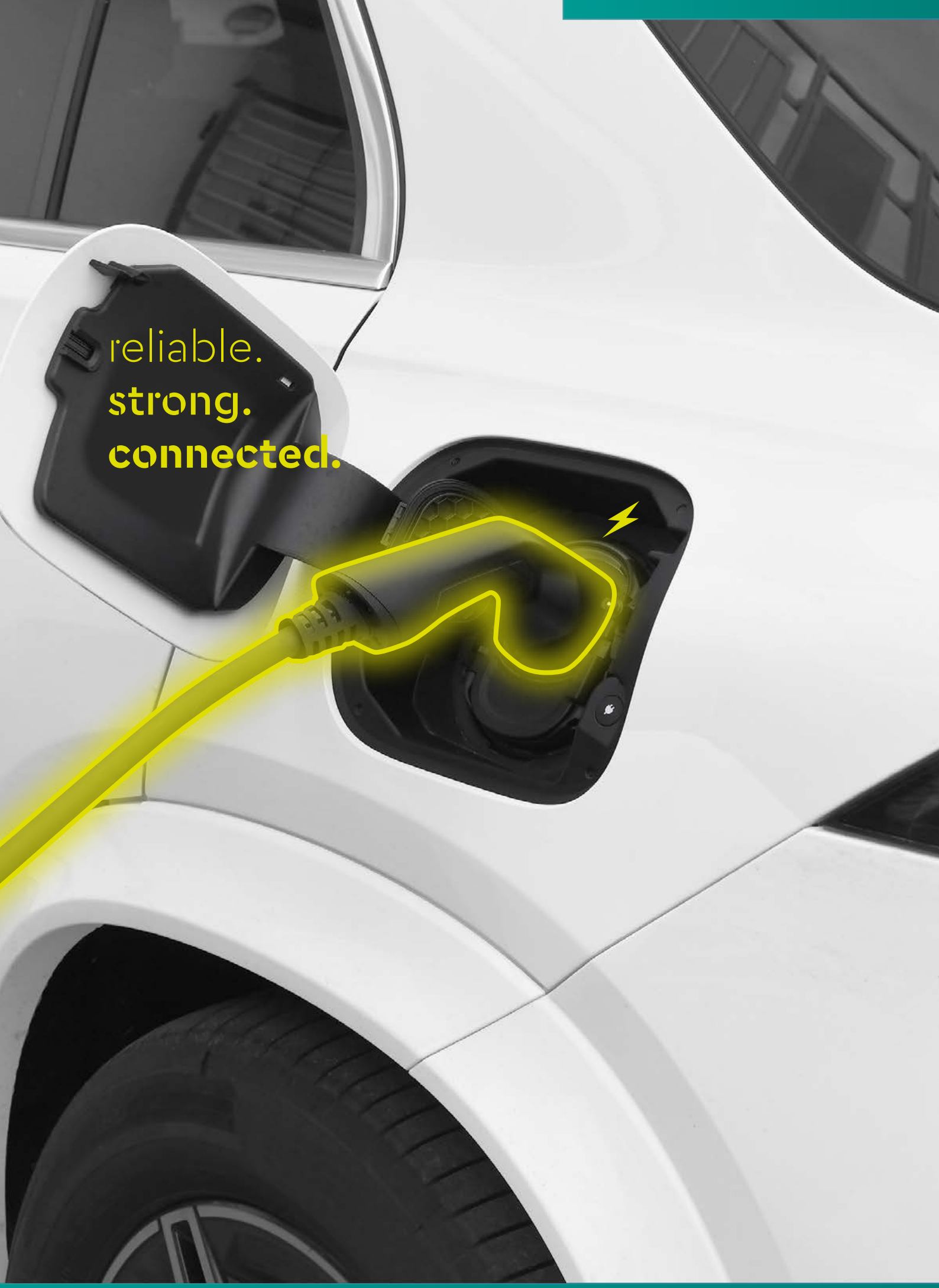
Charges most Electric and Plug-in Hybrid vehicles.
Thanks to the wide range of charging capacity options available, the EVtap® Wallbox is compatible with almost every electric car model available.

Ensures your battery is fully charged every morning when you leave the house.
Avoid the stress of not being able to find an available charging station and using cost intensive, public charging stations.

* subject to technical changes

connected to power.


your satisfaction
is our success.


reliable.
strong.
connected.

CHARGING ON THE GO.
WITHOUT COMPROMISE.

The EVtap® charging cable offers the following advantages:

- Increased safety thanks to temperature monitoring of the power contacts.
- Optimised battery charging thanks to signal contacts for communication between vehicle and charging station
- Robust design and long service life due to high impact, pressure and rollover resistance
- Standardised Type 2 charging plug, compatible with most electric and PHEV vehicles (IEC 62196-2)
- Full protection against contact and splashing water from all directions thanks to IP54 certification and protective cap
- Locking of the cable possible on the station and vehicle side
- High-quality HIKRA® cable in variable lengths with mineral oil and diesel resistance (IEC 628931)
- Supports 1- and 3-phase charging with 230V/400V, maximum 32A

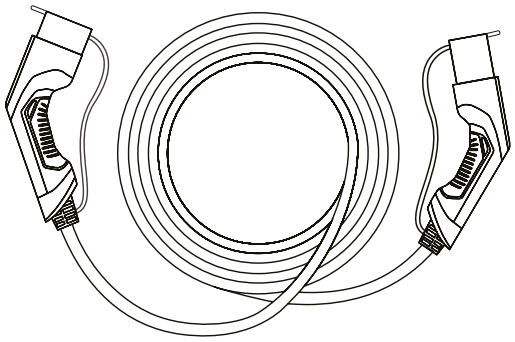
THE CHARGING CABLE.
BEST CONNECTION.

The EVtap® charging cable is your reliable partner for fast charging of electric and hybrid vehicles. With a Mode-3 Type-2 charging cable, all public AC charging stations throughout Europe can be used, so this cable belongs in the boot of every electric.

Mode-3 Type-2 ensures single-phase or three-phase AC fast charging with up to 22 kW. In Mode-3, the required charging power is determined by communication between the charging station and the vehicle.

TECHNICAL DATA.*
CHARGING CABLE.

- 1 and 3-phase charging
- Comfortable handling
- Low insertion and extraction forces
- High quality and robust
- Cable lengths of 3, 5 and 7 metres
- HIKRA® EVC cable



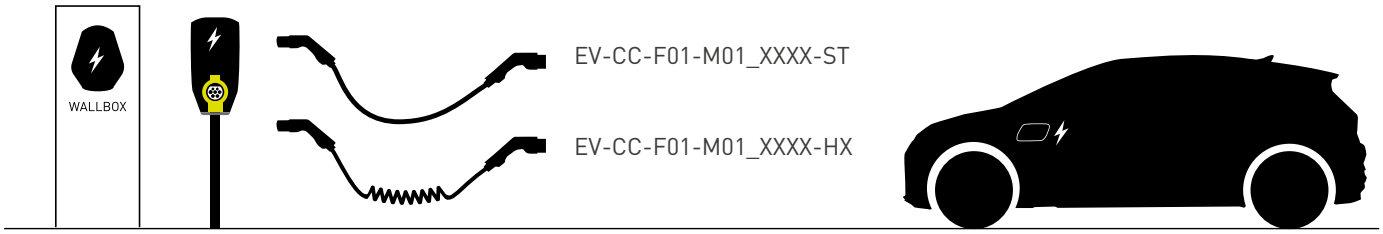
Item number	EV-CC-F01-M01-XXXX-ST			EV-CC-F02-M02-XXXX-ST		
Plug and connector	IEC 62196-2			IEC 62196-2		
Connector type	 Type-2 connector to type-2 plug			 Typ-2 connector to type2 plug		
Charging capacity	11 kW			22 kW		
Rated current	20 A			32 A		
Load type	AC					
Nominal voltage	480 V					
Rated frequency	50 Hz					
Number of phases	3					
Number of power contacts	5 (L1, L2, L3, N, PE)					
Insertion/withdrawal cycles	> 10.000					
Insertion force /withdrawal force	< 100 N					
Operating temperature	-30° C to +50° C					
Protection class	IP54 with protective cap					
Type of conductor	straight, black					
Cable type	(HIKRA® EVC) H07BZ5-F according to EN 50620, IEC 62893					
Cable cross-section	5 x 2,5 mm^2 + 0,5 mm^2			5 x 6 mm^2 + 0,5 mm^2		
Cable diameter	12,80 ± 0,4 mm			16,5 ± 0,4 mm		
Conductor length/ cable length (meter)	3	5	7	3	5	7
Weight (Kg)	1,5	2,0	2,5	2,2	3,1	4,0

* subject to technical changes - further individual designs available on request

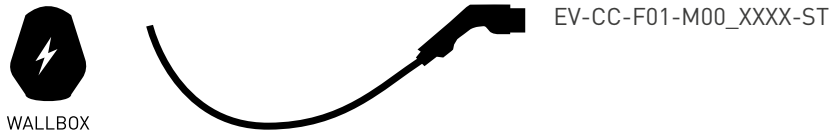
PRODUCT VARIANTS.*
OEM SOLUTIONS.

Our AC charging cables are suitable for many fields of application in different product variants. In addition to private use, the charging cables can also be used by wallbox and ICCB manufacturers. We are flexible and will develop and configure your customised solution in the field of electro-mobility. In everything, from the plug to the charging cable as desired, we are your reliable partner.

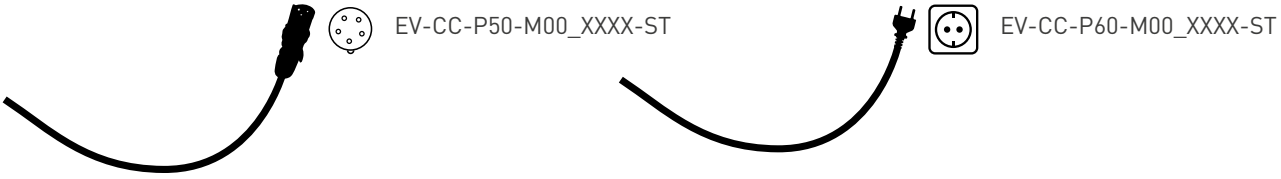
VARIANT 1 For connection to public **charging stations** or **wallboxes** at home



VARIANT 2 Type 2 coupling with open cable end for **wallbox manufacturers**



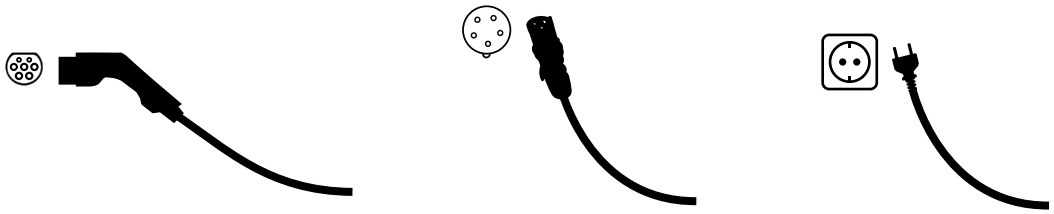
VARIANT 3 **CEE** or **Schuko plug** with open cable end for **manufacturers of control cabinets**



*subject to technical changes

TECHNICAL DATA.*

OTHER VARIANTS.



Item number	EV-CC-F01-M00-XXXX-ST	EV-CC-F02-M00-XXXX-ST	EV-CC-P50-M00-XXXX-ST	EV-CC-P51-M00-XXXX-ST	EV-CC-P60-M00-XXXX-ST
Plug and connector	IEC 62196-2	IEC 62196-2	IEC 60309		-
Connector type	Type-2 connector to open end		CEE plug to open end		Schuko plug to open end
Charging capacity	11 kW	22 kW	11 kW	22 kW	-
Rated current	20 A	32 A	16 A	32 A	16 A
Load type	AC				
Nominal voltage	480 V		400 V		250 V
Rated frequency	50 Hz		50 + 60 Hz		-
Number of phases	3		3		1
Number of power contacts	5 (L1, L2, L3, N, PE)		5 (L1, L2, L3, N, PE)		3 (L1, N, PE)
Insertion/withdrawal cycles	> 10.000		-		-
Insertion force, Withdrawal force	< 100 N		-		-
Operating temperature	-30° C to +50° C		-		-
Protection class	IP54 with protective cap		IP44		IP54
Type of conductor	straight / black				
Cable type	(HIKRA® EVC) H07BZ5-F according to EN 50620, IEC 62893				
Cable cross section	5 x 2,5 mm^2 + 0,5 mm^2	5 x 6 mm^2 + 0,5 mm^2	5 x 2,5 mm^2 + 0,5 mm^2	5 x 6 mm^2 + 0,5 mm^2	3 x 2,5 mm^2 + 0,5 mm^2
Cable diameter	12,8 ± 0,4 mm	16,5 ± 0,4 mm	12,8 ± 0,4 mm	16,5 ± 0,4 mm	10,1 ± 0,3 mm
Conductor length/ cable length (meter)	3 5 7	3 5 7	3 5 7 10	3 5 7 10	3 5 7 10
Weight (Kg)	1,1 1,6 2,0	1,8 2,7 3,6	0,9 1,3 1,8 2,5	1,6 2,5 3,5 4,8	- - - -

EV-CC-XX-XX-XXXX-XX

- Electric Vehicle (EV)
- Charging Cable
- XX: F01 Type 2 16 A female; F02 Type 2 32 A female; P50 CEE 16 A; P51 CEE 32 A; P60 Schuko
- XX: M00 Open end; M01 Type 2 16 A male; M01 Type 2 32 A male
- XXXX: 0300 3 Meters; 0500 5 Meters; 0700 7 Meters; 1000 10 Meters
- XX: ST Straight

NOTE:

Cable variants with CEE and Schuko plugs can only be configured with an open cable end.

*subject to technical changes

DATASHEET*
CABLE.

HIKRA®

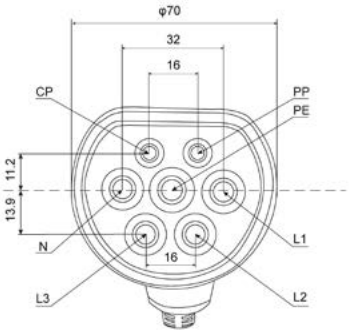
HIKRA® EVC

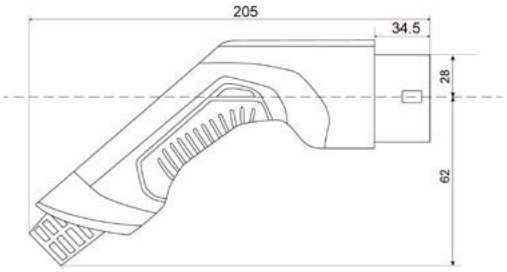
Construction	
Strand construction	E-Copper bare (electrolytic copper), fine wire acc. IEC 60228 Class 5
Insulation	Electron-beam cross-linked Polyolefin (EVI-2)
Outer Sheath	TPU- HFFR (EVM-1)
Colour	Sheath: black
Marking	HIKRA EVC VDE Zert. 40053157 CE
Design code	H07BZ5-F
Standards	DIN EN 50620, IEC 62893
Technical characteristics	
Nominal voltage U_0/U	450/750 V DC / AC
Maximum permitted operating voltage	480V AC (phase-earth); 825V AC (phase-phase)
Voltage test on strands	2,0 kV AC with a thickness up to 0,6 mm; 2,5 kV with a thickness > 0,6 mm; 5 Min. acc. EN50395 Section 7
Voltage test	3,5 kV AC; 15 minutes acc. EN 60395 Section 6
Current carrying capacity	Acc. EN 50620, Annex E
Short-circuit-temperature	250° C/5s
Surface resistance	EN 50395 Section 11 (≥ 109 Ohm at 100 up to 500 V DC)
DC-resistance of energy strands	EN 50395 Section 9 (10 days, 80 ± 5 °C; 0,9 kV DC)
Capacity between data and energy strands	Capacity < 150 pF/m at 60 ± 5°C Water temperature acc. EN 50289-1-5, 4.3.1
Material properties	
UV stability	Acc. EN 50620, Annex F; EN 50289-4-17, Method A
Ozone resistance	EN 50396 Section 8.1.3, Method B
UV resistance test on sheath	acc. EN 50620, Annex F; EN 50289-4-17, Method A (720h; 60°C ± 3°C; 50 ± 5% humidity)
Insulation resistance	EN 50395 Section 8.1; Carried out at 20°C and 90°C in water; Results acc. EN 50620, Table 4a
Dynamic penetration test	Spring-steel-needle through insulation or sheath (EN50618 Annex D)
Direct burial	Long-term water immersion at 90°C, duration 12 weeks; Insulation resistance ≥ 3GΩ (internal examination acc. UL44 cl. 5.4 & UL2556 6.4.4.2.1)
Crushing- and impact-resistance	Impact-Resistance gemäß UL 854.23 und Crushing-Resistance gemäß UL 854.24 (zusätzliche interne Prüfungen)
Sheath resistance against acid and alkaline	Impact-Resistance UL 854.23 and Crushing-Resistance UL 854.24 (internal examination)
Test of the vertical flame spread	flame-retardant acc. EN 60332-1-2
Halogen-free	EN 50525-1, Annex B
Cold impact test	EN 60811-506, EN 50618 Annex C.1 at -40°C
Cold elongation test	-40±2°C, 16h (EN 60811-505)
Chemical resistance	fuel: petrol, unleaded acc. EN 228; urea 32,5 % acc. ISO 22241-1; fuel: diesel acc. EN 590; radiator anti-freeze ($C_2H_6O_2$)-water cold cleaner; mineral oil resistant IRM 902 (EN 60811-404)
Minimum bending radius	4x cable diameter
Temperature range	Ambient temperature: -40° C to +80°C; Maximum conductor temperature: +90° C

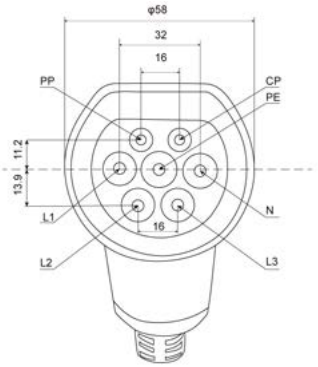
*subject to technical changes

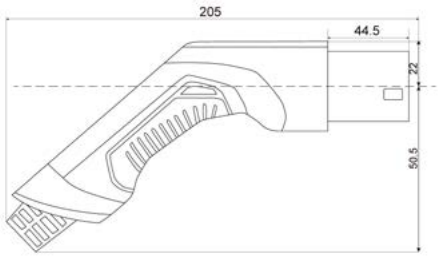
CE VDE

DATA SHEET.*
PLUG & CONNECTOR.









Technical data		
Plug and connector	IEC 62196-2	IEC 62196-2
Connector type	 Type-2 connector to type-2 plug	 Type-2 connector to type-2 plug
Charging capacity	11 kW	22 kW
Rated current	20 A	32 A
Load type	AC	
Nominal voltage	480 V	
Rated frequency	50 Hz	
Number of phases	3	
Number of power contacts	5 (L1, L2, L3, N, PE)	
Insertion/withdrawal cycles	> 10.000	
Insertion force, Withdrawal force	< 100 N	
Operating temperature	-30° C to +50° C	
Protection class	IP54 with protective cap	

*subject to technical changes

connected to power.

ACCESSORIES.
ALWAYS SUITABLE.

Bag for EVtap® charging cable

Charging cable bag with double zipper and carrying handle. Suitable for charging cables up to 5 m (depending on cable diameter).

Dimensions outside:	35.5 x 32 x 9.8 cm
Dimensions inside:	30 x 30 x 9 cm
Weight:	0.550 kg
Colour:	Black

EV-CCA-01

Mounting Post for EVtap® Wallbox

The post makes it possible to use the Wallbox as a free-standing charging station and thus to have more options when choosing the installation location independent of existing walls.

Height post	149 cm
Width post:	12 cm
Depth post:	5,5 cm
Width base:	25 cm
Depth base:	19 cm
Colour:	black

available on dedicated request only

EV-CCA-05

EV wall-mounted plug holder type 2

Wall-mountable plug holder type 2 (IEC62196). Angled housing for dry and practical storage of electric vehicle plugs when not in use.

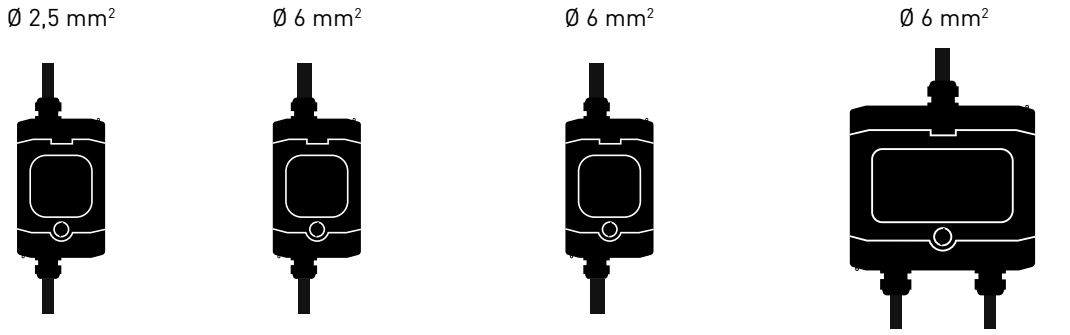
Dimensions (outside):	9,8 x 11 cm
Colour:	black

EV-CCA-03

SUB-DISTRIBUTOR.*
WITHOUT EQUAL.

We are your supporting partner on the way to a quick wallbox installation

- Our sub-distributors are fitted quickly and easily. Thanks to our high standard and our modular principle, we create a plug-and-play overall solution that enables many individual variations
- In this way, we offer frustration-free support for every electrician.
- Our 3-phase sub-distributor is suitable for every wallbox and every household. It is suitable for three-phase.
- We ensure that you receive the complete installation material in addition to the wallbox.
- The sub-distribution board is manufactured in accordance with DIN EN 61439-3 standards for distribution boards.
- We also offer you the matching cable for the sub-distributor, with individual lengths. We will be happy to select the right cable for the sub-distribution board for you. You only need to inform us of the required length.



EV-WBI-11-2,5-1 | EV-WBI-11-6-1 | EV-WBI-22-6-1 | EV-WBI-11-6-2

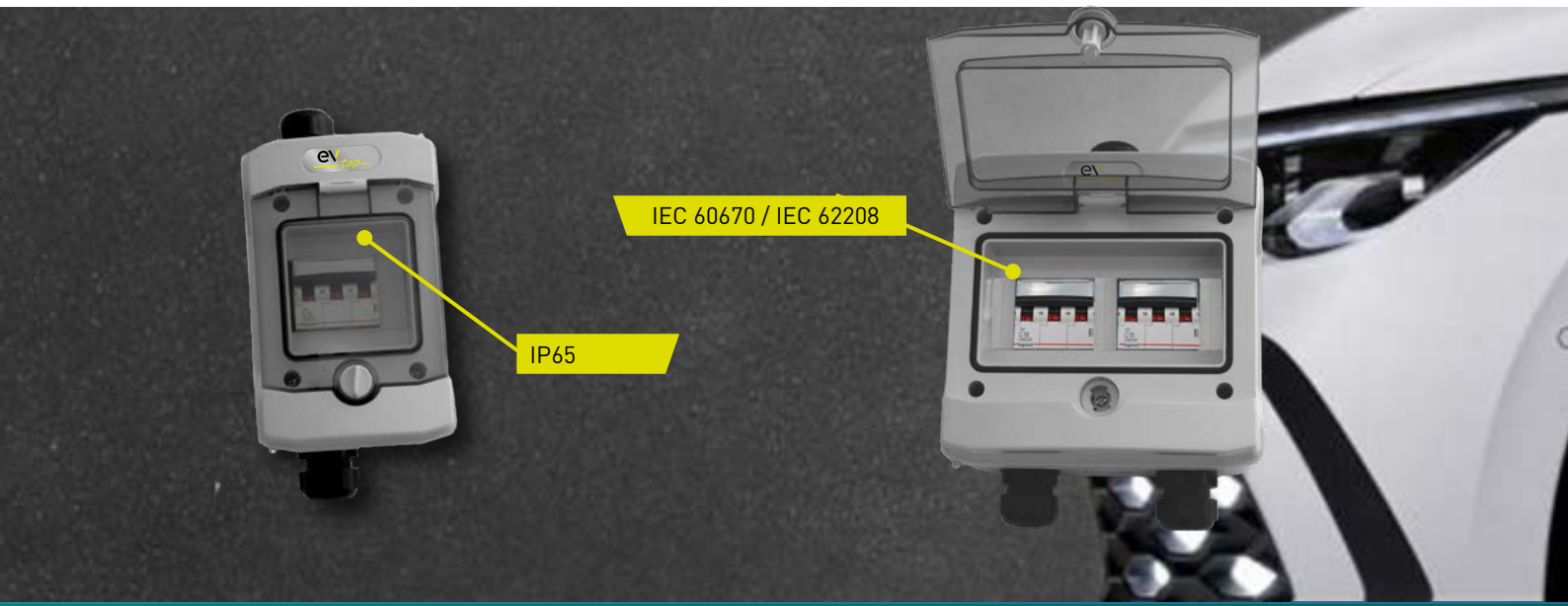
The cable for the connection from main to sub-distributor and from sub-distributor to wallbox.

NYM-J Cable

HI Nr.	704182	701167
Cable structure	5 x 2,5	5 x 6
External cable diameter in mm	12	14,5
Copper index Kg/Km	120	288
Weight Kg/Km	270	540
PVC sheathed cable	according to DIN VDE 0250-204	
Temperature range	moving +5°C to +70°C / not moving -40°C to +70°C	
Nominal voltage	300 / 500V	
Minimum bending radius	fixed installation 4x cable diameter	
PVC self-extinguishing and flame-retardant	according to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2	

*subject to technical changes

Item number	EV-WBI-11-2,5-1	EV-WBI-11-6-1	EV-WBI-11-6-2	EV-WBI-22-6-1
Electrical capacity	11 kW			22 kW
Box				
Dimensions	201x128x120mm		201x202x120mm	201x128x120mm
Material box	Acrylonitrile-styrene-acrylate copolymers (ASA)			
Material door	Polycarbonate (PC)			
Norm	IEC 60670 / IEC 62208			
DIN rail	1x4		1x8	1x4
Protection class	IP 65			
Resistance to impact	IK08			
Ambient temperature range	-25°C to +60°C			
Operating voltage	400 V AC / 1500 V DC			
Protection class/ class	II			
Cable gland at the top	1xM25	1xM32	1xM32	1xM32
Cable gland a the bottom	1xM25	1xM25	2xM25	1xM32
Miniature circuit breaker (MCB)				
Number of mcb	1		2	1
Tripping characteristic class	C			
Rated current	16 A			32 A
Rated voltage	400 V			
Poles	3			
Voltage type / type of voltage	AC			
Rated frequency	50-60 Hz			
Terminals				
Conductor	3			
Connection cross-section	0,5mm² to 6mm²			



ADDITIONAL INFORMATION.
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we create solutions

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the power behind re:energy

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