

**CH-W-S-A22-S-A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Smart charging solutions for individual challenges - The intelligent and networkable EV charging box family AC SMART. Ready for any application scenario in the private and commercial sector: from simple charging with a single charging point through integration into smart grids to the complex management of entire charging parks.

The three platform-based feature lines ECO, VALUE and ADVANCED cover the most common use-cases and can be adapted to individual applications by means of standardized interfaces and versatile configuration options. Clever features, such as RFID- or mobile app-based user authentication, adjustability of the charging current, integrated load and charge management or self-sufficient PV surplus charging, make the AC SMART Boxes a flexible, customizable and in addition to that, an efficient and sustainable charging solution.

**General ordering data**

Version	Wallbox, max. charging capacity of 22 kW @ 3-phase (400 V) grid connection, max. current 32 A, Type 2 socket outlet, Mobile App, RFID/NFC, Auto charge
Order No.	<a href="#">2875270000</a>
Type	CH-W-S-A22-S-A
GTIN (EAN)	4064675650836
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	167 mm	Depth (inches)	6.575 inch
Height	439 mm	Height (inches)	17.283 inch
Width	273 mm	Width (inches)	10.748 inch
Net weight	6,390 g		

## Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-30 °C...45 °C
Humidity	5 - 95% rel. humidity		

## System requirements

Connection system	Type 2 socket outlet	Type of communication to vehicle	Control Pilot (CP), Proximity Pilot / Plug Present (PP)
Charge mode	Mode 3	Protection class	I
Surge voltage category	III	Pollution severity	3

## Material data

Max. relative humidity during storage	95 %	Operating temperature, max.	45 °C
Operating temperature, min.	-30 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-40 °C		

## Performance specification

Performance specification	Number of phases input	3
	Input voltage type	AC
	Input voltage	400 V
	Input current, max.	32 A
	Charging power, max	22 kW
	Adjustment accuracy	1 A
	Charging current adjustable	Yes
	Charging current, min	6 A
Performance specification	max. charging capacity of 22 kW @ 3-phase (400 V) grid connection, max. current 32 A	

## Features

Charging data exportable	Yes	PV surplus charging possible	Yes
Protection degree	IP54	radio technology	4G / LTE
Type of status indicator	RGB LED	Charge status display integrated	Yes
Welding detection	Yes	Failure shutdown	Yes
Failure shutdown method	All-pole	DC - residual current detection integrated	Yes
DC - residual current	6 mA	Type of residual current detection to be provided by the installation	RCD Type A
User authentication	Yes	Mobile App available	Yes
User authentication type	Mobile App, RFID/NFC, Auto charge	Energy measurement integrated	Yes
Integrated energy measuring MID conform	Yes	Load management integrated	Yes
Load management type	dynamic	Communication integrated	Yes
Supported protocols	Modbus RTU, Modbus TCP, OCPP 1.6 (J)	With communication interface	Yes

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**Technical data****Interfaces**

Wifi frequency	2,4 GHz	Wi-Fi Standard	802.11 b/g/n
Bluetooth module	Bluetooth Low Energy	Ethernet ports	2
Digital inputs	5 (12 V / 6 mA)	Digital outputs	1 (12 V / 100 mA)
Type of protocol of serial interface	RS485		

**Assembly**

Installation	Wall mounting, Stand Mounting
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**Included in delivery**

Included in delivery	Drilling template, Instruction sheet, 5 RFID-transponder, Mounting screws, Assembly dowels, cover
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**Housing**

Operating altitude	≤ 3000 m	Housing main material	PC
Protection degree	IP54	Colour	black, Anthracite, grey
Impact resistance	IK10 in accordance with IEC 62262		

**Approvals and norms**

Approvals	IEC 61851-1, IEC 61851-21-2, IEC 62196-1, IEC 62196-2, EN 50620, EN 301 489-1, EN 301 908-1, EN 301 511, EN 300 328, EN 300 330 v.2.1.1, EN 62368-1, EN 55011
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**Connection data (supply cable)**

Type of connection	PUSH IN	Conductor cross-section, max.	16 mm <sup>2</sup>
With circuit breaker	No		

**Classifications**

ETIM 6.0	EC002883	ETIM 7.0	EC002883
ETIM 8.0	EC002883	ETIM 9.0	EC002883
ECLASS 9.0	27-14-47-01	ECLASS 9.1	27-14-47-01
ECLASS 10.0	27-14-47-01	ECLASS 11.0	27-14-47-01
ECLASS 12.0	27-14-47-01	ECLASS 13.0	27-14-47-01

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1 Potassium perfluorobutane sulfonate 29420-49-3
SCIP	d677010f-3c13-4196-b022-f62e8f2ef6a2

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## Technical data

## Approvals

Approvals



## Downloads

Approval/Certificate/Document of Conformity	<a href="#">CE declaration</a> <a href="#">Warranty Weidmüller e-mobility products</a> <a href="#">Gewährleistung Weidmüller e-mobility Produkte</a> <a href="#">Self declaration test certificates AC SMART</a> <a href="#">Selbsterklärung Testzertifikate AC SMART</a>
Engineering Data	<a href="#">Installationsvideo AC SMART</a> <a href="#">Installation Video AC SMART</a> <a href="#">AC SMART Modbus registers</a> <a href="#">Application notes – Use of an external Modbus TCP/RTU tag list (DE, EN)</a> <a href="#">Application notes – PV-surplus charging AC SMART (DE, EN)</a> <a href="#">Application notes – Integration of the AC SMART into an external load management (DE, EN)</a> <a href="#">3D Model</a> <a href="#">Application notes – Communication of the AC SMART to a backend</a>
Software	<a href="#">Firmware – Current Bluetooth Firmware AC SMART</a> <a href="#">Firmware – Current Firmware AC SMART</a> <a href="#">Firmware – Current WiFi Firmware AC SMART</a> <a href="#">Firmware – Archive Firmware files AC SMART</a> <a href="#">Firmware – Release notes Current firmware AC SMART</a> <a href="#">Firmware – Current Powerline communication Firmware AC SMART</a> <a href="#">Firmware – Combined Firmware Package AC SMART</a>
Technical Documentation	<a href="#">Abnahmeprotokoll AC SMART</a>
Tender specification	<a href="#">Ausschreibungstext</a> <a href="#">Tender text</a>
User Documentation	<a href="#">Broschüre Wallbox AC SMART, AC Ladekabel, Basiskomponenten</a> <a href="#">Brochure EV charging box AC SMART, AC charging cables, Basic components</a> <a href="#">Instructionsheet AC SMART</a> <a href="#">MANUAL AC SMART (DE)</a> <a href="#">MANUAL AC SMART (EN)</a> <a href="#">MANUAL AC SMART (FR)</a> <a href="#">MANUAL AC SMART (IT)</a> <a href="#">MANUAL AC SMART (ES)</a> <a href="#">MANUAL AC SMART (NL)</a> <a href="#">MANUAL AC SMART (NO)</a> <a href="#">MANUAL AC SMART (SV)</a> <a href="#">MANUAL AC SMART (CS)</a> <a href="#">MANUAL AC SMART (HU)</a> <a href="#">OCPP 1.6 Documentation (EN/DE)</a>
Catalogues	<a href="#">Productcatalogue e-mobility</a>

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## Drawings



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## Accessories

## AC Boxes



## General ordering data

Type	PVC AC 1I 10 SPD2R + RJ ...	Version
Order No.	<a href="#">8000104168</a>	AC voltage version, Auxiliary and alarm contact, TN-C-S, TN-S, IT with
GTIN (EAN)	4099986573475	N, IT without N, TT
Qty.	1 pc(s).	

## AC Charging cables



The Mode 3 charging cables with ergonomic handle design offer charging comfort of the highest quality. Robust and durable in every respect: the housing is dirt and water repellent, shock and impact resistant as well as cold and heat resistant. Available in different lengths, in straight and spiral form, for 1- or 3-phase charging.

## General ordering data

Type	CA-T2T2-10M-22/3-R-BBG	Version
Order No.	<a href="#">2791310000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4064675070788	Connection type - vehicle: Type 2, Charging power, max.: 22 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 32 A, Cable length: 10 m, Cable type: regular

Type	CA-T2T2-5M-22/3P-R-BBG	Version
Order No.	<a href="#">2754390000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4050118899108	Connection type - vehicle: Type 2, Charging power, max.: 22 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 32 A, Cable length: 5 m, Cable type: regular

Type	CA-T2T2-7.5M-22/3-R-BBG	Version
Order No.	<a href="#">2791300000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4064675070771	Connection type - vehicle: Type 2, Charging power, max.: 22 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 32 A, Cable length: 7.5 m, Cable type: regular

Type	CA-T2T2-7.5M-11/3-R-BBG	Version
Order No.	<a href="#">2791320000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4064675070801	Connection type - vehicle: Type 2, Charging power, max.: 11 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 20 A, Cable length: 7.5 m, Cable type: regular

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## Accessories

Type	CA-T2T2-5M-22/3P-S-BBG	Version
Order No.	<a href="#">2754410000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4050118898996	Connection type - vehicle: Type 2, Charging power, max.: 22 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 32 A, Cable length: 5 m, Cable type: spiral
Type	CA-T2T2-5M-11/3P-R-BBG	Version
Order No.	<a href="#">2754380000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4050118899115	Connection type - vehicle: Type 2, Charging power, max.: 11 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 20 A, Cable length: 5 m, Cable type: regular
Type	CA-T2T2-10M-11/3-R-BBG	Version
Order No.	<a href="#">2791330000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4064675070825	Connection type - vehicle: Type 2, Charging power, max.: 11 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 20 A, Cable length: 10 m, Cable type: regular
Type	CA-T2T2-5M-11/3P-S-BBG	Version
Order No.	<a href="#">2713330000</a>	AC charging cable, Connection type - charging point: Type 2,
GTIN (EAN)	4050118767377	Connection type - vehicle: Type 2, Charging power, max.: 11 kW,
Qty.	1 pc(s).	Number of phases: 3, Rated current: 20 A, Cable length: 5 m, Cable type: spiral

## Stands



Whether carport, driveway, front garden, customer, or employee parking lot: With the easy to assemble Weidmüller stand, you are flexible in your choice of installation location. Thanks to its compact and timeless design, the Weidmüller stand fits into any architectural environment. The housing surfaces offer space for individualization – for example with logos or company names. Premium components and materials, certified production in Germany, as well as the durable design with ease of installation, underline the sustainable concept of the charging solution.

## General ordering data

Type	ST-W-S-DOUBLE
Order No.	<a href="#">2915210000</a>
GTIN (EAN)	4099986543478
Qty.	1 pc(s).
Type	ST-W-S-SINGLE
Order No.	<a href="#">2904100000</a>
GTIN (EAN)	4099986531321
Qty.	1 pc(s).
Type	ST-W-S-BLANK
Order No.	<a href="#">2904120000</a>
GTIN (EAN)	4099986531581
Qty.	1 pc(s).

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Design-Cover for AC SMART in white and black.

**General ordering data**

Type	EQ-W-S-C2-D-WH
Order No.	<a href="#">2922620000</a>
GTIN (EAN)	4099986617865
Qty.	1 pc(s).

Type	EQ-W-S-C2-D-BK
Order No.	<a href="#">2958080000</a>
GTIN (EAN)	4099986745766
Qty.	1 pc(s).