

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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.	2875270000
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	4,291 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

Performance specification

Performance specification	max. charging capacity of 22 kW @ 3-phase (400 V) grid connection, max. current 32 A		
Performance specification	Number of phases input	3	
	Input voltage type	AC	
	Frequency range	50 Hz / 60 Hz	
	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	

Features

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

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		

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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

ROHS	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
	Conform	

Connection data (supply cable)

Type of connection	PUSH IN	Conductor cross-section, max.	16 mm ²
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
ECLASS 14.0	27-14-47-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
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



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[CE declaration](#)
[Warranty Weidmüller e-mobility products](#)
[Gewährleistung Weidmüller e-mobility Produkte](#)
[Self declaration test certificates AC SMART](#)
[Selbsterklärung Testzertifikate AC SMART](#)

Engineering Data

[Installationsvideo AC SMART](#)
[Installation Video AC SMART](#)
[AC SMART Modbus registers](#)
[Application notes – Use of an external Modbus TCP/RTU tag list \(DE, EN\)](#)
[Application notes – PV-surplus charging AC SMART \(DE, EN\)](#)
[Application notes – Integration of the AC SMART into an external load management \(DE, EN\)](#)
[3D Model AC SMART](#)
[Application notes – Communication of the AC SMART to a backend](#)

Software

[Firmware – Current Firmware AC SMART](#)
[Firmware – Archive Firmware files AC SMART](#)
[Firmware – Release notes Current firmware AC SMART](#)
[Firmware – Combined Firmware Package AC SMART \(EN, FI, SV\)](#)
[Firmware – Combined Firmware Package AC SMART \(EN, ES\)](#)
[Firmware – Current Firmware AC SMART \(EN, FI, SV\)](#)
[Firmware – Current Firmware AC SMART \(EN, ES\)](#)
[Firmware – Current Firmware AC SMART \(EN, DE, FR, IT\)](#)

Technical Documentation

[Abnahmeprotokoll AC SMART](#)

Tender specification

[Ausschreibungstext](#)
[Tender text](#)

User Documentation

[Broschüre Wallbox AC SMART, AC Ladekabel, Basiskomponenten](#)
[Brochure EV charging box AC SMART, AC charging cables, Basic components](#)
[Instructionsheet AC SMART](#)
[MANUAL AC SMART \(DE\)](#)
[MANUAL AC SMART \(EN\)](#)
[MANUAL AC SMART \(FR\)](#)
[MANUAL AC SMART \(IT\)](#)
[MANUAL AC SMART \(ES\)](#)
[MANUAL AC SMART \(NL\)](#)
[MANUAL AC SMART \(NO\)](#)
[MANUAL AC SMART \(SV\)](#)
[MANUAL AC SMART \(CS\)](#)
[MANUAL AC SMART \(HU\)](#)
[OCPP 1.6 Documentation \(EN/DE\)](#)
[MANUAL AC SMART \(PL\)](#)
[MANUAL AC SMART \(TR\)](#)

Catalogues

[Productcatalogue e-mobility](#)

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Drawings



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Accessories

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.	2915210000
GTIN (EAN)	4099986543478
Qty.	1 pc(s).

Type	ST-W-S-SINGLE
Order No.	2904100000
GTIN (EAN)	4099986531321
Qty.	1 pc(s).

Type	ST-W-S-BLANK
Order No.	2904120000
GTIN (EAN)	4099986531581
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-T2T2-5M-11/3P-R-BBG	Version
Order No.	2754380000	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-T2T2-5M-11/3P-S-BBG	Version
Order No.	2713330000	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

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Accessories

Type	CA-T2T2-7.5M-22/3-R-BBG	Version
Order No.	2791300000	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-T2T2-10M-11/3-R-BBG	Version
Order No.	2791330000	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-22/3P-R-BBG	Version
Order No.	2754390000	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-T2T2-5M-22/3P-S-BBG	Version
Order No.	2754410000	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-T2T2-7.5M-11/3-R-BBG	Version
Order No.	2791320000	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
Type	CA-T2T2-10M-22/3-R-BBG	Version
Order No.	2791310000	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

AC Boxes



General ordering data

Type	PVC AC 1I 10 SPD2R + RJ ...	Version
Order No.	8000104168	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).	

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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.	2922620000
GTIN (EAN)	4099986617865
Qty.	1 pc(s).

Type	EQ-W-S-C2-D-BK
Order No.	2958080000
GTIN (EAN)	4099986745766
Qty.	1 pc(s).