

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). |

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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 | Protection degree | IP54 |
| radio technology | 4G / LTE | Type of status indicator | RGB LED |
| 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 | 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) |

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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 |
|--------------|-------------------------------|

Included in delivery

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

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 |
|-----------|---|

Connection data (supply cable)

| | | | |
|--------------------|---------|-------------------------------|--------------------|
| Type of connection | PUSH IN | Conductor cross-section, max. | 16 mm ² |
|--------------------|---------|-------------------------------|--------------------|

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 |

CH-W-S-A22-S-A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Approvals

Approvals



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 |
| Software | Firmware – Current Bluetooth Firmware AC SMART Firmware – Current Firmware AC SMART Firmware – Current WiFi Firmware AC SMART Firmware – Archive Firmware files AC SMART Firmware – Release notes Current firmware AC SMART Firmware – Current Powerline communication Firmware AC SMART Firmware – Combined Firmware Package AC SMART |
| 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) |
| Catalogues | Productcatalogue e-mobility |

CH-W-S-A22-S-A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



CH-W-S-A22-S-A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Accessories

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-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-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-T2T2-7.5M-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-T2T2-5M-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-T2T2-10M-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 |
| 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-T2T2-5M-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 |
| 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). | |

CH-W-S-A22-S-A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Accessories

Number of phases: 3, Rated current: 32 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-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). |

| | |
|------------|----------------------------|
| Type | ST-W-S-DOUBLE |
| Order No. | 2915210000 |
| GTIN (EAN) | 4099986543478 |
| Qty. | 1 pc(s). |

AC Boxes



General ordering data

| | | |
|------------|-----------------------------|--|
| Type | PVC AC 1I 1O 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). | |

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Accessories****Design-Cover**

Design-Cover for AC SMART in white and black.

**General ordering data**

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

| | |
|------------|----------------------------|
| Type | EQ-W-S-C2-D-WH |
| Order No. | 2922620000 |
| GTIN (EAN) | 4099986617865 |
| Qty. | 1 pc(s). |