

**CH-W-S-A7.4-P-E****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 7.4 kW @ 1-phase (230 V) grid connection, max. current 32 A, With attached 5 m cable and type 2 plug, Mobile App
Order No.	<a href="#">2875210000</a>
Type	CH-W-S-A7.4-P-E
GTIN (EAN)	4064675650775
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	150 mm	Depth (inches)	5.905 inch
Height	433 mm	Height (inches)	17.047 inch
Width	268 mm	Width (inches)	10.551 inch
Net weight	5,009 g		

## Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-30 °C...50 °C
Humidity	5 - 95% rel. humidity		

## System requirements

Connection system	With attached 5 m cable and type 2 plug	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.	50 °C
Operating temperature, min.	-30 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-40 °C		

## Performance specification

Performance specification	Number of phases input	1
	Input voltage type	AC
	Input voltage	230 V
	Input current, max.	32 A
	Charging power, max	7.4 kW
	Adjustment accuracy	1 A
	Charging current adjustable	Yes
	Charging current, min	6 A

Performance specification max. charging capacity of 7.4 kW @ 1-phase (230 V) grid connection, max. current 32 A

## Features

Charging data exportable	No	PV surplus charging possible	No
Protection degree	IP54	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
Energy measurement integrated	No	Load management integrated	No
Communication integrated	Yes	Supported protocols	Modbus RTU, Modbus TCP
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	1
Digital inputs	1 (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, Mounting screws, Assembly dowels
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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

## 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="#">3D Model</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 – 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>
Catalogues	<a href="#">Productcatalogue e-mobility</a>

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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-SINGLE
Order No.	<a href="#">2904100000</a>
GTIN (EAN)	4099986531321
Qty.	1 pc(s).

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

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

## AC Boxes



## General ordering data

Type	PVC AC 1I 1O 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).	

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[www.weidmueller.com](http://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.	<a href="#">2958080000</a>
GTIN (EAN)	4099986745766
Qty.	1 pc(s).

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