

**WM-SC-PV-50****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

The intelligent load management tool SMARTcharge automatically ensures smart distribution of the available electricity and ensures electric vehicles are charged in a flash. User-friendly monitoring and management options – from simple status queries to controlling or prioritizing charging processes increase the overview and make it easier to control a charging network. Also, the installation of SMARTcharge, as well as the integration of a PV system is simple, as the intuitive installation guide tells exactly what to do. Therefore, the system is ready for use in the shortest possible time and the surplus from the PV system can be used directly

**General ordering data**

Version	Load management E-Mobility, Number of possible charging boxes connectable 50, PV surplus charging possible Yes, PUSH IN
Order No.	<a href="#">2923130000</a>
Type	WM-SC-PV-50
GTIN (EAN)	4099986621282
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	332 mm	Depth (inches)	13.071 inch
Height	206 mm	Height (inches)	8.11 inch
Width	150 mm	Width (inches)	5.905 inch
Net weight	1,518 g		

## Temperatures

Operating temperature	-20 °C...55 °C	Humidity	5 to 95 % (non-condensing)
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## Material data

Operating temperature, max.	55 °C	Operating temperature, min.	-20 °C
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## Power supply

Conductor cross-section, max.	2.5 mm <sup>2</sup>	Output voltage	24 V
Type of connection	PUSH IN		

## Features

Charging boxes remote controllable via webinterface	Yes	Input current, max.	Depending on current transformer
Monitoring of charging processes possible via webinterface	Yes	Number of possible charging boxes connectable	50
PV surplus charging possible	Yes	Prioritisation of charging processes possible via webinterface	Yes
User authentication	Yes	User authentication type	RFID/NFC
Integrated energy measuring MID conform	Yes	Load management integrated	Yes
Load management type	dynamic	Supported protocols	Modbus TCP
With communication interface	Yes		

## Interfaces

Ethernet ports	2
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## Assembly

Installation	DIN rail
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## Connection data (supply cable)

Type of connection	PUSH IN	Conductor cross-section, max.	2.5 mm <sup>2</sup>
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## Classifications

ETIM 6.0	EC002542	ETIM 7.0	EC002889
ETIM 8.0	EC002889	ETIM 9.0	EC002889
ECLASS 9.1	27-14-47-03	ECLASS 10.0	27-14-47-03
ECLASS 11.0	27-14-47-03	ECLASS 12.0	27-14-47-03
ECLASS 13.0	27-14-47-03		

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Environmental Product Compliance**

REACH SVHC	Lead monoxide (lead oxide) 1317-36-8 Lead 7439-92-1
SCIP	f2bf92a8-51a8-45ca-a696-53d44adc9772

**Approvals**

Approvals

**Downloads**

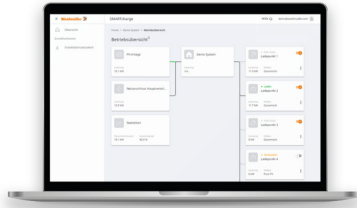
Approval/Certificate/Document of Conformity	<a href="#">Warranty Weidmüller e-mobility products</a> <a href="#">Gewährleistung Weidmüller e-mobility Produkte</a>
Engineering Data	<a href="#">Quick start guide – Quickstartguide SMARTcharge</a> <a href="#">Application notes – Setting up SMARTcharge (DE, EN)</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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## Drawings



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## Accessories

## Steel



Steel DIN rails are the most widespread on the market. Among metal DIN rails, they have the lowest shortcircuit protection, similar to stainless steel.

## General ordering data

Type	TS 35X7.5/LL 2M/ST/ZN	Version
Order No.	<a href="#">0514500000</a>	Terminal rail, with slot, Accessories, 35 x 7.5 x 2000 mm, Slit width:
GTIN (EAN)	4008190046019	5.20 mm, Slit length: 25.00 mm, Steel, galvanic zinc plated and
Qty.	2 m	passivated

## Ethernet



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

## General ordering data

Type	VDATA CAT6	Version
Order No.	<a href="#">1348590000</a>	Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1,
GTIN (EAN)	4050118153002	802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4
Qty.	1 pc(s).	

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## Accessories

## AdvancedLine managed switches

**Features of AdvancedLine managed Switch series**

Industrial networks require a future-proof infrastructure with high availability, reliability, and transparency. Managed switches increase network availability utilizing redundancies and control mechanisms as well as network diagnostics in demanding automation networks.

- Extensive set of management features enable the set-up of various redundancy, monitoring, traffic filter and security functions
- Huge variety of port count and media type enable a wide range of applications (5 to 24 ports)
- Models supporting Gigabit Ethernet including Jumbo Frame support for applications with high demand on bandwidth and latency
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 75°C

**General ordering data**

Type	IE-SW-AL24M-24TX	Version
Order No.	<a href="#">2682320000</a>	Network switch, managed, Fast Ethernet, Number of ports: 24x RJ45,
GTIN (EAN)	4050118692396	IP30, -40 °C...75 °C
Qty.	1 pc(s).	

## WLAN AP/Bridge/Client

**Features of the BasicLine (IE-WL-BL series)**

- IEEE 802.11 a/b/g/n compliant access point / client
- MIMO technology for data rates up to 300 Mbit/s
- Fast roaming for interruption-free connection switching between access points
- DFS support in the 5 GHz band

**Features of the ValueLine (IE-WL-VL series)**

- IEEE 802.11 a/b/g/n compliant access point / client / bridge
- MIMO technology for data rates up to 300 Mbit/s
- Fast roaming for interruption-free connection switching between access points
- DFS support in the 5 GHz band
- Power supply via PoE to IEEE 802.3af possible
- Integrated DI/DOs for monitoring and alarms

**General ordering data**

Type	IE-WL-BL-AP-CL-EU	Version
Order No.	<a href="#">2536600000</a>	Wireless Access Point/Client, IEEE 802.11 a/b/g/n, EU-Model, IP30,
GTIN (EAN)	4050118548655	0 °C...60 °C
Qty.	1 pc(s).	

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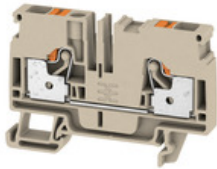
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## Accessories

6 mm<sup>2</sup>

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

## General ordering data

Type	A4C 6 BL	Version
Order No.	<a href="#">2881460000</a>	Feed-through terminal, PUSH IN, 6 mm <sup>2</sup> , 800 V, 41 A, blue
GTIN (EAN)	4064675672449	
Qty.	50 pc(s).	
Type	A4C 6	Version
Order No.	<a href="#">2881450000</a>	Feed-through terminal, PUSH IN, 6 mm <sup>2</sup> , 800 V, 41 A, dark beige
GTIN (EAN)	4064675672432	
Qty.	50 pc(s).	

## Cat.5

Bulk stock, copper cable, rigid, 4 x 2 x AWG 24/1, Cat. 5, green



## General ordering data

Type	IE-C5CS8UG-100	Version	Packaging
Order No.	<a href="#">8813160000</a>	Installation cable, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR,	as cable
GTIN (EAN)	4032248513017	100 m	ring in
Qty.	1 pc(s).		carton

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## Accessories

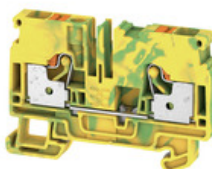
## Optical status indicator



Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE 0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

## General ordering data

Type	VPU AC I 1+1 300/12.5	Version
Order No.	<a href="#">2591480000</a>	Surge voltage arrester, Low voltage, Surge protection, Single-phase,
GTIN (EAN)	4050118599466	TN, IT with N, IT without N, TT
Qty.	1 pc(s).	
Type	VPU AC I 3+1 300/12.5	Version
Order No.	<a href="#">2591460000</a>	Surge voltage arrester, Low voltage, Surge protection, TN-C-S, TN-S,
GTIN (EAN)	4050118599480	TT, IT with N, IT without N
Qty.	1 pc(s).	

6 mm<sup>2</sup>

A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

## General ordering data

Type	A4C 6 PE	Version
Order No.	<a href="#">2881490000</a>	PE terminal, PUSH IN, 6 mm <sup>2</sup> , Green/yellow
GTIN (EAN)	4064675672470	
Qty.	50 pc(s).	



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## Accessories

## RJ45 tool-free



RJ45 plug-in connector (tool-less) according to IEC 60603-7-51 for wire outer diameters up to 1.6 mm

## General ordering data

Type	IE-PS-RJ45-FH-BK	Version
Order No.	<a href="#">1963600000</a>	RJ45 IDC plug, Cat.6A / Class EA (ISO/IEC 11801 2010), 8-core, 4-
GTIN (EAN)	4032248645725	core, EIA/TIA T568 A, EIA/TIA T568 B, PROFINET
Qty.	10 pc(s).	