

## Our technology dream team - PV Stick and PV Next

Easy, fast and safe in its application

### Quality starts with the small things

Weidmüller photovoltaic connectors ensure reliable operation and durability – from the conventional WM4 C crimp connector to the innovative PV-stick with PUSH IN technology. Our high-quality connectors are extremely easy to handle, quick to install and minimise the risk of plant downtimes and thereby save money in the long term.

### Standards-conformant quality

#### Crimp-free connection

A click tells you the connection has been made.



#### Simple insulation stripping

The notches in the screw cap indicate how much insulation to strip off.




#### Ergonomic

The easy-grip design makes assembly easy.

### Technical data

Continuous operating temperature	-40 °C to +85 °C
Protection class (plugged/open)	IP 65 / IP 2x
Rated current	30 A
Rated voltage	1,500 V DC
Cable diameter	4 mm <sup>2</sup> / 6 mm <sup>2</sup>
Cable exterior diameter	5.5 mm to 7.5 mm
Cable as per standard	ZPG1189/08.07 & EN 50618:2014
Pollution degree	II
Approval	TUV (IEC 62852)
Connection system	PUSH IN (Spring terminal connection)

### Ordering data

Female	Type	Qty.	Order No.
	PV-STICK+ VPE10	10	1303450000
	PV-STICK+ VPE50	50	1303460000
	PV-STICK+ VPE200	200	1303470000
Male	Type	Qty.	Order No.
	PV-STICK- VPE10	10	1303480000
	PV-STICK- VPE50	50	1303500000
	PV-STICK- VPE200	200	1303510000
PV-Stick set	Type	Qty.	Order No.
	PV-STICK SET	1	1422030000
	Female connector	1	
	Male connector	1	

### More pv solutions:



## Weidmüller – Your partner in Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. On demand we can also send the general terms of delivery to you.

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Order number: 2832860000/06/2021/SMC

## Photovoltaic solutions for residential and commercial applications

### PV Next, PV Protect and PV Stick

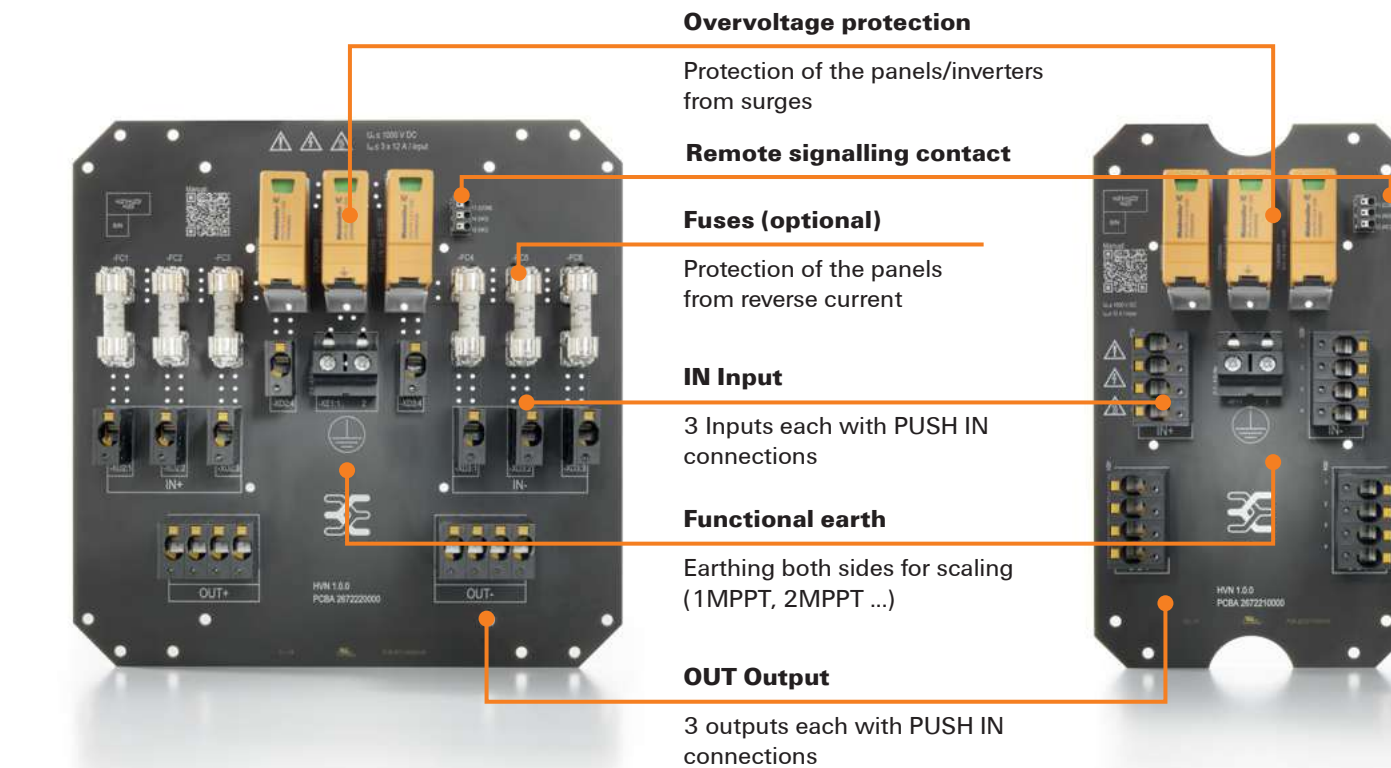
Highest efficiency through standardised, scalable design

Easy.  
Fast.  
Safe.



## More efficient wiring of photovoltaic systems

PV Next combiner boxes: Easy. Fast. Safe.



**Easy.**  
The unique PCB design allows quick and easy integration of additional functions. For example, a switch can be integrated or a second MPPT can be connected directly to the first PCB.

**Fast.**  
With the PUSH IN connection technology, PV Next offers the most straightforward and safest connection concept for cabling. The installation can be carried out without crimping and without special tools

**Safe.**  
The intuitive design and PUSH IN connection technology make installation safer and quality assurance easier. The risk of screw connections with incorrect torque is eliminated, which is one of the main risks for fires.

### The most innovative concept for string inverters

- 6 Sizes of the box
- Overvoltage protection
- Plug & Play connection
- With and without fuses
- PUSH IN connection on board
- Switch optional



SCAN ME



Weidmüller 

# Protect PV systems optimally against overvoltages

## PV Protect

### Ready to connect all-in-one solution for your photovoltaic system

PV systems are directly affected by environmental influences because they are installed in exposed locations. This also increases the risk of lightning strikes. According to EN 51643-32, PV systems must be protected against overvoltages to avoid high repair costs and loss of revenue due to system failure.

PV Protect is the solution for optimum protection of the inverter against overvoltages. The ready-to-connect boxes are available for different system voltages and can be supplied with various arrester types and MPP trackers. Depending on requirements, connection is made via cable glands or WM4C connectors with convenient and reliable PUSH IN connection technology.

### Your special advantages:

- Wide range of product variants**  
PV Protect is available with different arrester classes (Type I / II and Type II) and rated voltages (1,000 V / 1,500 V). The connection is made either via photovoltaic plug connectors or cable glands – for high flexibility.
- Designed to meet various requirements**  
PV Protect is compact, robust, and extremely weatherproof. The housing complies with protection class IP67 and protects the sensitive electronics inside, even from harsh environmental influences.
- Mount the box, connect the cable, ready thanks to the pre-assembled arresters, the product can be connected quickly and with little effort. The protection of the PV system is ensured immediately. The clear marking of the ports eliminates the possibility of incorrect wiring.**

Available in product variants suitable for different applications

Compact, space-saving design

Reliable and maintenance-free PUSH IN connection technology

Ready to connect solution in protection class IP67

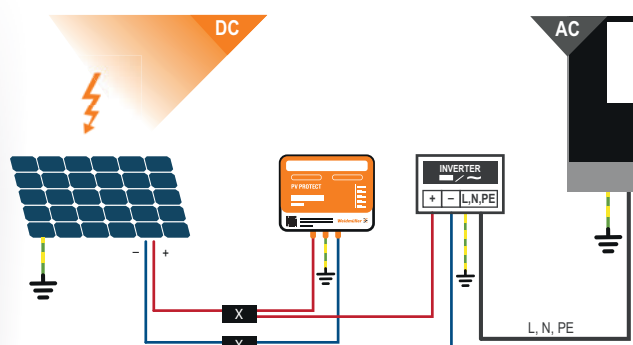
Connector (WM4 C)



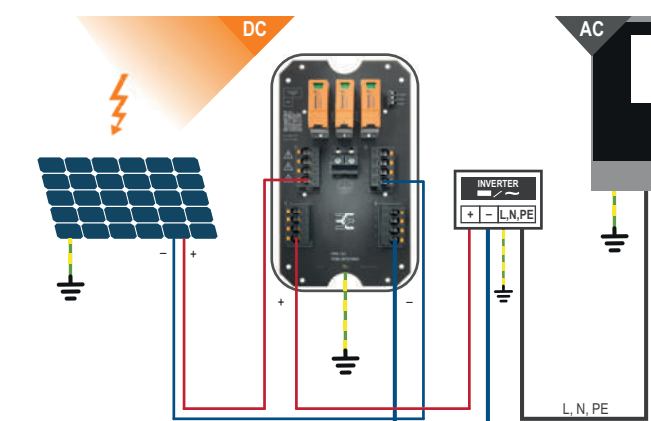
Description	Product description	Arresters (SPD)	Connection	Voltage	MPPT	Dimension	Order No.
VPUM111SXFV100TXPK10	VPU PV BOX CG I+II 3 1000 1M	Typ I+II	CG	1000 V	1	168x145x91 mm	2755970000
VPUM212SXFV100TXPK10	VPU PV BOX CG I+II 5 1000 2M	Typ I+II	CG	1000 V	2	168x145x91 mm	2755980000
VPUM111SXFV101TXPK10	VPU PV BOX WM4 I+II 3 1000 1M	Typ I+II	WM4C	1000 V	1	168x145x91 mm	2764140000
VPUM212SXFV101TXPK10	VPU PV BOX WM4 I+II 5 1000 2M	Typ I+II	WM4C	1000 V	2	168x145x91 mm	2764150000
VPUM111SXFV200TXPK10	VPU PV BOX CG II 3 1000 1M	Typ II	CG	1000 V	1	168x145x91 mm	2755950000
VPUM212SXFV200TXPK10	VPU PV BOX CG II 5 1000 2M	Typ II	CG	1000 V	2	168x145x91 mm	2755960000
VPUM111SXFV201TXPK10	VPU PV BOX WM4 II 3 1000 1M	Typ II	WM4C	1000 V	1	168x145x91 mm	2764110000
VPUM212SXFV201TXPK10	VPU PV BOX WM4 II 5 1000 2M	Typ II	WM4C	1000 V	2	168x145x91 mm	2764130000
VPUM111SXFV202TXPK15	VPU PV BOX CG II 3 1500 1M	Typ II	CG	1500 V	1	168x145x91 mm	2755990000
VPUM212SXFV202TXPK15	VPU PV BOX CG II 5 1500 2M	Typ II	CG	1500 V	2	168x145x91 mm	2756000000
VPUM111SXFV201TXPK15	VPU PV BOX WM4 II 3 1500 1M	Typ II	WM4C	1500 V	1	168x145x91 mm	2764160000
VPUM212SXFV201TXPK15	VPU PV BOX WM4 II 5 1500 2M	Typ II	WM4C	1500 V	2	168x145x91 mm	2764180000

Note: All items are available from stock. MOQ 1 piece

### PV Protect 1 MPPT



### PV Next 1 MPPT



### Y-Cable / X-Cable

The Y or X cable is used to connect three or four elements of a PV system, such as the connection between PV panels, inverters and surge protection boxes. The cables are available in different connection variants.



Description	Power Input 1	Power Input 2	Power Output	Stick Connection	Cable type	Length per outlet	Order No.
PVHYW-XXW-XX06W-15	WM4C-	-	WM4C+	WM4C+	Y-Cable	200 mm	2814180000
PVHYW-XXW-XX06W-15	WM4C+	-	WM4C-	WM4C-	Y-Cable	200 mm	2814190000
PVHYM-XXW-XX06M-15	MC4-	-	MC4+	WM4C+	Y-Cable	200 mm	2814200000
PVHYM-XXW-XX06M-15	MC4+	-	MC4-	WM4C-	Y-Cable	200 mm	2814210000
PVHYW-XXPXX06W-15	WM4C-	-	WM4C+	Part stripped	Y-Cable	200 mm	2814220000
PVHWK-W-W-XX06W-15	WM4C+	WM4C-	WM4C-	WM4C+	X-Cable	200 mm	2814240000
PVHWK-W-W-XX06W-15	WM4C+	WM4C+	WM4C-	WM4C-	X-Cable	200 mm	2814250000
PVHXM-M-W-XX06M-15	MC4-	MC4+	MC4+	WM4C+	X-Cable	200 mm	2814260000
PVHXM-M-W-XX06M-15	MC4+	MC4+	MC4-	WM4C-	X-Cable	200 mm	2814270000
PVHWK-W-PXXX06W-15	WM4C-	WM4C-	WM4C+	Part stripped	X-Cable	200 mm	2814280000
PVHWK-W-PXXX06W-15	WM4C+	WM4C+	WM4C-	Part stripped	X-Cable	200 mm	2814290000

# Combiner boxes for your applications

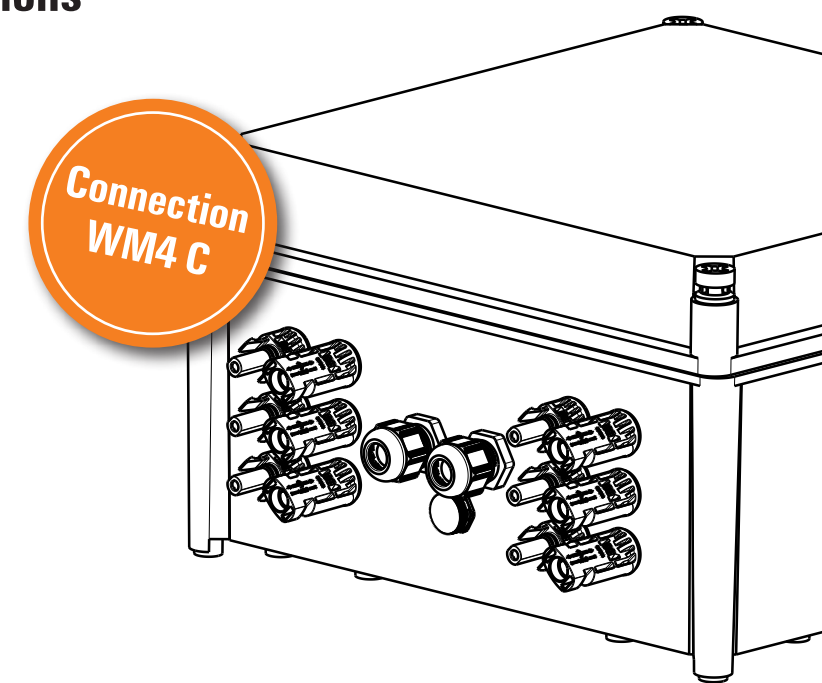
## PV Next

### WM4 C with crimp connection

Top quality and easy handling due to modern PV connectors. The PV Next box is supplied with pre-mounted WM4 C connector. The installation can be carried out „plug and play“ without crimping and without special tools.

### Your Benefits

- Fast and convenient connection
- Easy maintenance thanks to the WM4 C plug
- Designed for voltages up to 1,000 volts
- Conform to standard IEC 61439-1/2
- Protection class IP 65



Connection WM4 C

### 2 IN / 1 OUT without fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M113SXFV101TXPK11	Typ I+II	WM4C	-	-	1	200x234x130 mm	2791920000
PVN1M214SXFV101TXPK10	Typ I+II	WM4C	-	-	2	186x334x175 mm	2737580000
PVN1M418SXFV101TXPK10	Typ I+II	WM4C	-	-	4	372x334x175 mm	2737600000
PVN1M6112SXFV101TXPK10	Typ I+II	WM4C	-	-	6	558x334x175 mm	2737620000
PVN1M112SXFV201TXPK11	Typ II	WM4C	-	-	1	200x234x130 mm	2791940000
PVN1M214SXFV201TXPK10	Typ II	WM4C	-	-	2	186x334x175 mm	2791860000
PVN1M418SXFV201TXPK10	Typ II	WM4C	-	-	4	372x334x175 mm	2791880000
PVN1M6112SXFV201TXPK10	Typ II	WM4C	-	-	6	558x334x175 mm	2791900000

Note: All items are available from stock. MOQ 1 piece

### 3 IN / 3 OUT without fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M113SXFV101TXPK10	Typ I+II	WM4C	-	-	1	186x334x175 mm	2683170000
PVN1M216SXFV101TXPK10	Typ I+II	WM4C	-	-	2	372x334x175 mm	2683180000
PVN1M318SXFV101TXPK10	Typ I+II	WM4C	-	-	3	558x334x210 mm	2683190000
PVN1M113SDFV101TXPK10	Typ I+II	WM4C	Yes	-	1	186x334x214 mm	2683200000
PVN1M216SDFV101TXPK10	Typ I+II	WM4C	Yes	-	2	372x334x214 mm	2683210000
PVN1M318SDFV101TXPK10	Typ I+II	WM4C	Yes	-	3	558x334x249 mm	2683220000
PVN1M113SXFV201TXPK10	Typ II	WM4C	-	-	1	186x334x175 mm	2683270000
PVN1M216SXFV201TXPK10	Typ II	WM4C	-	-	2	372x334x175 mm	2683380000
PVN1M318SXFV201TXPK10	Typ II	WM4C	-	-	3	558x334x210 mm	2683390000
PVN1M113SDFV201TXPK10	Typ II	WM4C	Yes	-	1	186x334x214 mm	2683400000
PVN1M216SDFV201TXPK10	Typ II	WM4C	Yes	-	2	372x334x214 mm	2683410000
PVN1M318SDFV201TXPK10	Typ II	WM4C	Yes	-	3	558x334x249 mm	2683420000

Note: All items are available from stock. MOQ 1 piece

### 3 IN / 3 OUT with fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M113SXFV101TXPK10	Typ I+II	WM4C	-	Yes	1	302x334x175 mm	2683070000
PVN1M216SXFV101TXPK10	Typ I+II	WM4C	-	Yes	2	558x334x210 mm	2683080000
PVN1M113SDFV101TXPK10	Typ I+II	WM4C	Yes	Yes	1	302x334x214 mm	2683090000
PVN1M216SDFV101TXPK10	Typ I+II	WM4C	Yes	Yes	2	558x334x249 mm	2683100000
PVN1M113SDFV201TXPK10	Typ II	WM4C	-	Yes	1	302x334x175 mm	2683270000
PVN1M216SDFV201TXPK10	Typ II	WM4C	-	Yes	2	558x334x210 mm	2683280000
PVN1M113SDFV3V201TXPK10	Typ II	WM4C	Yes	Yes	1	302x334x214 mm	2683290000
PVN1M216SDFV3V201TXPK10	Typ II	WM4C	Yes	Yes	2	558x334x249 mm	2683300000

Note: All items are available from stock. MOQ 1 piece

### 6 IN / 6 OUT with fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M116SXFV101TXPK10	Typ I+II	WM4C	-	Yes	1	488x334x210 mm	2737440000
PVN1M116SDFV101TXPK10	Typ I+II	WM4C	Yes	Yes	1	488x334x249 mm	2737480000
PVN1M116SXFV201TXPK10	Typ II	WM4C	-	Yes	1	488x334x210 mm	2737490000
PVN1M116SDFV201TXPK10	Typ II	WM4C	Yes	Yes	1	488x334x249 mm	2737500000

Note: All items are available from stock. MOQ 1 piece

Example image: 2791920000



### Connection with cable gland – reliable, safe and durable

Our combiner boxes are also available with proven cable gland (CG), as an alternative to the PV connector.

### Your benefits

- Easy and fast application
- Unused input can easily be plugged with the included seal set
- OUTPUT: up to 16mm<sup>2</sup> connection
- Robust against external influences

### 2 IN / 1 OUT without fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M113SXFV100TXPK11	Typ I+II	CG	-	-	1	200x234x130 mm	2791930000
PVN1M214SXFV100TXPK10	Typ I+II	CG	-	-	2	186x334x175 mm	2737590000
PVN1M418SXFV100TXPK10	Typ I+II	CG	-	-	4	372x334x175 mm	2737610000
PVN1M6112SXFV100TXPK10	Typ I+II	CG	-	-	6	558x334x175 mm	2737630000
PVN1M112SXFV200TXPK11	Typ II	CG	-	-	1	200x234x130 mm	2791950000
PVN1M214SXFV200TXPK10	Typ II	CG	-	-	2	186x334x175 mm	2791870000
PVN1M418SXFV200TXPK10	Typ II	CG	-	-	4	372x334x175 mm	2791890000
PVN1M6112SXFV200TXPK10	Typ II	CG	-	-	6	558x334x175 mm	2791910000

Note: All items are available from stock. MOQ 1 piece

### 3 IN / 3 OUT without fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M113SXFV100TXPK10	Typ I+II	CG	-	-	1	186x330x175 mm	2683110000
PVN1M216SXFV100TXPK10	Typ I+II	CG	-	-	2	372x330x175 mm	2683120000
PVN1M318SXFV100TXPK10	Typ I+II	CG	-	-	3	558x330x210 mm	2683130000
PVN1M113SDFV100TXPK10	Typ I+II	CG	Yes	-	1	186x330x214 mm	2683140000
PVN1M216SDFV100TXPK10	Typ I+II	CG	Yes	-	2	372x330x214 mm	2683150000
PVN1M318SDFV100TXPK10	Typ I+II	CG	Yes	-	3	558x330x249 mm	2683160000
PVN1M113SXFV200TXPK10	Typ II	CG	-	-	1	186x330x175 mm	2683310000
PVN1M216SXFV200TXPK10	Typ II	CG	-	-	2	372x330x175 mm	2683320000
PVN1M318SXFV200TXPK10	Typ II	CG	-	-	3	558x330x210 mm	2683330000
PVN1M113SDFV200TXPK10	Typ II	CG	Yes	-	1	186x330x214 mm	2683340000
PVN1M216SDFV200TXPK10	Typ II	CG	Yes	-	2	372x330x214 mm	2683350000
PVN1M318SDFV200TXPK10	Typ II	CG	Yes	-	3	558x330x249 mm	2683360000

Note: All items are available from stock. MOQ 1 piece

### 3 IN / 3 OUT with fuse holder

Description	Arresters (SPD)	Connection	Switch	Fuse holder	MPPT	Dimension	Order No.
PVN1M113SXFV100TXPK10	Typ I+II	CG	-	Yes	1	302x330x175 mm	2683030000
PVN1M216SXFV100TXPK10	Typ I+II	CG	-	Yes	2	558x330x210 mm	2683040000
PVN1M113SDFV100TXPK10	Typ I+II	CG	Yes	Yes	1	302x330x214 mm	2683050000
PVN1M216SDFV100TXPK10	Typ I+II	CG	Yes	Yes	2	558x330x249 mm	2683060000
PVN1M113SDFV200TXPK10	Typ II	CG	-	Yes	1	302x330x175 mm	2683230000
PVN1M216SDFV200TXPK10	Typ II	CG	-	Yes	2	558x330x210 mm	2683240000
PVN1M113SDFV3V200TXPK10	Typ II	CG	Yes	Yes	1	302x330x214 mm	2683250000
PVN1M216SDFV3V200TXPK10	Typ II	CG	Yes	Yes	2	558x330x249 mm	2683260000

Note: All items are available from stock. MOQ 1 piece

### 6 IN / 6 OUT with fuse holder