




EV-charging







EV-Charger Components

As an independent player Vandapower can supply components for EV-chargers from several brands.







AC Charging cables		
		<ul style="list-style-type: none"> - Mode 3 AC charging cables - Type 1 and Type 2 - IEC 62196-2 / SAE J1772 - 1-Phase or 3-Phase - 20/32 A - Different lengths (4, 5, 6, 8m,...) - With or without temperature sensor
		<ul style="list-style-type: none"> - Mode 3 AC charging cables - Type 2 - IEC 62196-2 - 1-Phase or 3-Phase - 20/32 A - Different lengths (4, 5, 6, 8m,...) - With or without temperature sensor


- for other brands and/or other types, please contact us

DC Charging cables		
		<ul style="list-style-type: none"> - Mode 4 DC charging cables - CCS-2 and CCS-1 - 40/80/150/200/250 A - High power charging versions: 400/500 A (cooled) - Different lengths (4, 5, 6, 8m,...) - With or without temperature sensor
		<ul style="list-style-type: none"> - Mode 4 DC charging cables - CCS-2 - 65/125/200 A - Different lengths (4, 5, 6, 8m,...) - With or without temperature sensor



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Vehicle inlets		
		<ul style="list-style-type: none"> - AC or DC - with locking actuator - Type 2 (CCS), AC: 8kw (1-Phase) or 26,6 kW (3-Phase) - Type 1 (CCS), AC: 12 or 20 kW (1-Phase) - CCS Type 1 and 2, DC: 125, 200 or 250 kW - 480 VAC, 32 A - 1000 VDC, 125/200/250 A - Temperature sensor
		<ul style="list-style-type: none"> - 1-Phase or 3-Phase - 250 VAC, 32 A - 480 VAC, 32/63 A - 1000 VDC, 65/125/200 A - Temperature sensor optional (NTC or PT1000) - 4 possible positions for the lock (90° rotatable)





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Socket Outlets		
		<ul style="list-style-type: none"> - IEC 62196-2 - 1-Phase or 3-Phase - 20/32A - With or without LED-indicator - With or without temperature sensor - With or without lock 12V
		<ul style="list-style-type: none"> - IEC 62196-2 - 1-Phase or 3-Phase - 16/32/63 A - Optional electronic or solenoid lock - 3 possible positions for the lock (120° rotatable) - With or without temperature sensor

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DC Charge Controllers		
		<ul style="list-style-type: none"> - According to IEC 61851-23 and IEC 61851-1 - AC and DC charging point - Programmable charging controller (IEC 61131) - With integrated 3G modem - CAN bus interface - RS485 / RS232 interface - Ethernet interface (RJ45) - OCPP 1.6J

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AC Charge Controllers		
		<ul style="list-style-type: none"> - According to IEC 61851-1 (mode 3 charging) - Configurable - ISO 15118 compliant (V2G), depending on type - Dynamic load possible - USB interface, depending on type - Ethernet interface and 4G, depending on type - RS-485 bus system - Residual current monitoring module to be ordered separately - DIN rail with backplane bus connectors - RFID possible - web-based management - Open Charge Point Protocol (OCPP)
		<ul style="list-style-type: none"> - According to IEC 61851-1 (mode 3 charging) - Master and slave operation configurable - ISO 15118 compliant (V2G) - Dynamic load management - USB interface - Integrated 4G modem possible (SIM card needed) - Modbus - Integrated residual direct current monitoring (RCD module to be ordered separately) - RFID possible - OCPP 1.5 and 1.6 and EEBUS Protocol - Web interface configuration



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DC Power Electronics











		<ul style="list-style-type: none"> - DC power module - 19" rack mounting - CAN bus - 3-phase input - 150-1000 VDC output - 30 kW
		<ul style="list-style-type: none"> - DC power module - Rack mounting (control cabinet needed) - 3-phase input - 200-920 VDC output - 87,5 kW - combined up to 350 kW charging possible

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Surge Protection













		<ul style="list-style-type: none"> - Surge protective device type 1/2 - for 3-phase (5 conductor) - Din rail mounted
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Energy Meters/Billing Meters		
		<ul style="list-style-type: none"> - Universal DC Billing Meter - Compliant with VDE-AR-E-2418-3-100 - Compliant with legal metrology for billing systems - Voltage measurement from 150V to 1150V - 400 and 600 A version - Ethernet communication - Bi-directional meter for V2G - Charging cable resistance compensation
		<ul style="list-style-type: none"> - MID approved - Modbus RTU interface - 1-Phase / 32A or 3-Phase / 65 A - 7-digit display
		<ul style="list-style-type: none"> - MID approved (AC) energy meter - 3-Phase - Direct measurement up to 80 A - Modbus/TCP , Modbus/RTU or M-bus interface
		<ul style="list-style-type: none"> - 3-Phase EQ-meter with IR-port - 65 A - Modbus RS-485 optional - MID approved - LCD with backlight
		<ul style="list-style-type: none"> - 1-Phase EQ-meter with IR-port - 65 A - Modbus RS-485 optional - MID approved - LCD with backlight

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Ground Fault Detection/Residual Current Monitoring

		<ul style="list-style-type: none"> - IEC 62955 - Residual current monitoring module - for AC and DC residual voltages in AC installations - In combination with phoenix charge controllers - 100 A (1-phase) / 40 A (3-phase) - Fault Signal Output: Active High Open Drain
		<ul style="list-style-type: none"> - IEC 61851-1 - Residual current monitoring module - for AC and DC residual voltages in AC installations - 50 A - 1- and 2-channel execution
		<ul style="list-style-type: none"> - Residual current monitoring module - 1-Phase or 3-phase (AC) - Up to 32A - LED indication - alarm relay with 1 N/C contact
		<ul style="list-style-type: none"> - IEC 61869-1 - Current transformer - To connect directly into Bender charge controller - AC and DC residual current - six-core cable - up to rated voltage of 600V - rated current 48A - available with 3 cable lengths
		<ul style="list-style-type: none"> - RCD with automatic test and reset function - Type A / AP R - 2- or 4-pole (5 or 7 DIN modules) - 25/40/63 A - optional RS485 Modbus module (ARBus)
		<ul style="list-style-type: none"> - microprocessor-based ground-fault monitor for resistance-grounded and solid grounded systems - output relay with isolated normally open and normally closed contacts for use in independent control circuits - Current transformer to be ordered separately - SE-701







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Insulation Monitoring		
		<ul style="list-style-type: none"> - ISOMETER - for DC charging stations (mode 4 / IEC 61851-23) - nominal voltage up to 1000 VDC - Measurement of the mains voltage (r.m.s.) with undervoltage and overvoltage detection - Modbus RTU interface
		<ul style="list-style-type: none"> - ISOMETER - for DC charging stations (mode 4) - Switchable between CCS and CHAdeMO - nominal voltage up to 1000 VDC - detection of symmetrical and asymmetrical insulation faults - Modbus RTU interface







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Switch-disconnectors and Emergency stops		
		<ul style="list-style-type: none"> - OT Manual Switch-disconnector - Remote operation possible (Motorized) - 160-4000 A (IEC) - Modular system - 3-/4-pole - Front- or side-operated - Auxiliary contact blocks optional
		<ul style="list-style-type: none"> - 4-pole switch disconnecter - 25 and 40 A - 750 V - Front operated - DIN-rail mountable
		<ul style="list-style-type: none"> - Compact Emergency Stop - 24...300 V - 2NC - Twist release - Mushroom 40 mm - Non-iluminated

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RFID		
		<ul style="list-style-type: none"> - RS-485 interface - USB interface
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		<ul style="list-style-type: none"> - RFID module without integrated status LEDs - ISO14443A/MIFARE standard - connected to the charge controller with RJ45 cable

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Display		
		<ul style="list-style-type: none"> - Display module - 2x16 characters - visualizes the status of the charge controller - two RJ45 sockets
		<ul style="list-style-type: none"> - Touch panel, TFT Display - different sizes - RJ45 connection - Windows Embedded Compact 7 - 2 USB interfaces - IP65 or IP67 - Sunlight readable display
		<ul style="list-style-type: none"> - Touch panel, 12,1" TFT Display - IP65 - 2x Ethernet RJ45 - USB interface - COM (RS-232/422/485) interface

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Other components

Please, also check our separated folders for:

- Fuses
- AC- and DC-Contactors