

MARKET

Flexible, fast, and efficient charging

Schneider StarCharge Fast 180

Benefits

- Designed for fast charging in Commercial and Industrial Buildings or fleet depots, Schneider StarCharge Fast 180 is fully integrated into Schneider Electric end-to-end solutions, leveraging the company expertise in energy management, electrical solutions and digital technologies.
- Supported by a worldwide network of technicians and high-end services to optimize the performance of the EV infrastructure.
- Providing a seamless user experience for EV installers, operators and drivers.



Unique features

Flexibility

- Scalable from 120 kW to 180 kW
- Dynamic simultaneous charging
- Customizable for a specific project

Robustness

- 100% factory tested
- Third-party lab certification for IEC 61851-1 ed3 and IEC 61851-23/24 ed1
- Embedded electrical protections, including SPD

Serviceability

- Customer support in local language, backed by dedicated expertise, on-site or remotely
- Comprehensive manufacturer services covering the entire lifecycle, from installation and commissioning, to maintenance and modernization
- High reparability level with full scope of available spare parts
- Ecostruxure Energy Asset Portal for remote assistance and diagnostic (Schneider Electric Customer Care Center or field services team)

Advanced connectivity

- Embedded Wi-Fi and 4G modem that enable remote monitoring and smart charging
- Interoperability certified with dozens of CSMS (OCPP 1.6 Json)
- Plug and charge functionality (ISO15118)

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Characteristics

Characteristics	
Range	Schneider StarCharge Fast
Product name	Schneider StarCharge Fast 180
Product type	DC charging station
Device short name	EVD2S1
Electrical Characteristics	
Power Supply	3 PH
Poles description	L1+L2+L3+N+PE
(US) rated supply voltage	380 V – 415 Vac +/- 10% 50 / 60 Hz
Earthing system	TT TN-S / TN-C-S Compatible IT with additional isolation transformer on the power supply
Power factor	0.99 at nominal output power
Efficiency	97% peak at nominal output power
THDi	≤ 5% at nominal output power without any additional filter
DC meter	Each DC output includes Class A DC PTB/MID meter (1% accuracy at full scale) visible by any user
Standby power	<60W without top LED (version without cable management) <80W with top LED (version with cable management)
Protection	Protected against short circuit, overload, overheating, and temperature regulated
Overvoltage category	OVC III
Rated conditional short-circuit current	25 kA
Charger Interfaces	
Vehicle connector number	2
Output type	CCS2
Output voltage	CCS2: 150 – 1000 VDC
Output current	CCS2: 380 A rated current with boost mode up to 500 A
Nominal output power	CCS2: 120 kW, 180 kW
Dynamic-simultaneous charging	Possibility to charge two vehicles simultaneously. The charging station automatically adapts to use the full charging power available and to respond to the actual power request of each vehicle(s) connected to minimize the charging time.

Current information and protections to use with Schneider StarCharge Fast 180

Current information and protections with Schneider StarCharge Fast 120 – 180 kW		
Current		
Power	120 kW	180 kW
Rated Current	190 A	285 A
Max Current	211 A	316 A
Suggested protections		
Circuit breaker (Overcurrent)	3P+N or 4P	3P+N or 4P
Schneider Electric™ offer range	ComPacT NSX250H 4P 250 A + Optional Trip Unit MicroLogic 4.2 for ComPacT NSX 250	ComPacT NSX400H 4P 400 A + Optional Trip Unit MicroLogic 4.3 for ComPacT NSX 400/630

Note: if planning to upgrade from 120 kW to 150 or 180 kW at a later stage, consider the protection sizings for DC 150 or 180 kW.

Complementary

Complementary	
Local signal	1x multi-colour LED for status indication for each vehicle connector, plus 1x multi-colour LED for status of the charging station
User Interface	10.4" screen
Multi-language support	Bulgarian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Indonesian, Italian, Latvian, Lithuanian, Norwegian, Portuguese, Romanian, Spanish, Swedish, Thai, Ukrainian, Vietnamese. Possibility to add additional language.
Communication protocol	OCPP 1.6 Json smart charging including security part ISO15118-2 DIN 70121 VDV 261 BCB toggle wake-up ModBus TCP
Network connection	Wi-Fi 802.11 b/g/n (2.4 GHz) Ethernet 100 BASE-TX Modem 4G (LTE-FDD, LTE-TDD, WCDMA, GSM)
Access control system	<ul style="list-style-type: none"> – RFID Badge reader conforming to ISO / IEC 14443 Type A&B and ISO/IEC 15693 – NFC reader compatible with tag type 1,2,4,5 – Reader support: MIFARE Ultralight, MIFARE Classic 1K/4K, MIFARE DESFire EV1/EV2, MIFARE Plus cards – ISO15118 Plug and Charge – Autocharge (EV Mac address) – Payment terminal (option available in Europe and Australia) – USB type C Connector
Function available	<ul style="list-style-type: none"> Load management Diagnosis capabilities Software updates Real-time charge cost display EV driver HMI customization for tariff display EV driver HMI logo customization Connection to Ecostruxure Energy Asset Portal for remote support and troubleshooting (Schneider Electric Customer Care Center or field services team) CSMS notification in case of power outage Advertisement possibility
Cooling	Filter air cooling
Easy to use	Accessible to disable people (depending on the standards applicable in the country)
Mounting options	Floor standing

* To check availability, please contact Schneider Electric front offices

Environment

Environment	
Standard compliance	EN IEC 61851-1:2019 EN 61851-23:2014+AC:2016-06, EN 61851-24:2014 + AC:2015, EN 62311:2008 EN IEC 62196-1:2022 EN IEC 62196-3:2022 EN IEC 61851-21-2:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN 61000-6-4:2007/A1:2011, EN 61000-6-2:2005 + AC 2005 EMC Class A Radio certification RFID/NFC: EN 300 330 V2.1.1(2017-02) 2/3/4G: EN 301 908-1 V15.2.1(2023-01), EN 301 908-2 V13.1.1(2020-06) EN 301 908-13 V13.2.1(2022-02), EN 301 511 V12.5.1(2017-03) Wi-Fi: EN 300 328 V2.2.2(2019-07) RED DA EN 18031-1/2/3: 2024 EMC radio Equipment RFID/NFC, 2/3/4G, Wi-Fi: EN 301 489-1 V1.9.2(2011-09), EN 301 489-1 V2.2.3(2019-11), EN 301 489-3 V2.3.2(2023-01) EN 301 489-17 V3.2.4(2020-09), EN 301 489-17 V3.3.1(2024-09), EN 301 489-52 V1.2.1(2021-11), EN 301 489-52 V1.3.1(2024-11)
Product certifications	CE
IP degree of protection	IP55
IK degree of shock protection	IK10 – screen IK08
Ambient air temperature for operation	-30...+55°C derating above 50°C
Ambient air temperature for storage	-40...+70°C
Relative humidity	5...95 %
Operating altitude	up to 2000 m (without physical derating)
Acoustic noise	Variable under load: 0 up to 60 dB (1 meter in front of the charger)
Sensors	Humidity sensor; door sensor; tilt sensor; water ingress sensor; fan sensors
Charge interrupt button	Yes
Housing corrosion protection	C4M
Colors charging station	Front face: RAL 9003 and RAL 9005 Side and rear: Dark gray silver
Material charging station	430 Stainless steel

Environmental data

Offer sustainability	
EU RoHS directive	Compliant
Mercury free	Yes
RoHS exemption information	Yes
Environmental disclosure	Products Environmental Profile
Circularity profile	End Of Life information
REACH regulation	Compliant

Charging station dimensions

Charging station characteristics	Dimensions
Charging Station with cable management	H 2230 x W 1259 x D 1076 mm
Charging Station without cable management	H 2050 x W 846 x D 1006 mm

Schneider StarCharge Fast 180 references and accessories

Power	Reference	Connectors	Weight without power module	Weight with power module	Payment terminal	Cable range	Cable management	Eichrecht
180 kW	EVD2S180TBB	2x CCS2	~474 kg	~570 kg	No*	3.8m	Yes	No
	EVD2S180TBCC	2x CCS2	~474 kg	~570 kg	Payter Appollo	3.8m	Yes	No
	EVD2S180TBCC7	2x CCS2	~455 kg	~551 kg	No	7.5m	No	No
	EVD2S180TBB-G	2x CCS2	~474 kg	~570 kg	No*	3.8m	Yes	Yes
	EVD2S180TBCC-G	2x CCS2	~474 kg	~570 kg	Payter Appollo	3.8m	Yes	Yes
	EVD2S180TBCC7-G	2x CCS2	~455 kg	~551 kg	No	7.5m	No	Yes
120 kW	EVD2S120TBB	2x CCS2	~474 kg	~538 kg	No*	3.8m	Yes	No
	EVD2S120TBB-G	2x CCS2	~474 kg	~538 kg	No*	3.8m	Yes	Yes

Reference	Description
EVP1BNS	10 RFID badges

* PAX IM30 payment terminal can be installed through a Schneider Electric Services' offer.

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