

Where flexibility meets performance

Schneider StarCharge Fast 720

Fast, future-ready, and efficient: our decentralized DC charging system delivers up to 720 kW across 6 floor-standing or 12 overhead dispensers, designed to meet the evolving demands of fleets, industrial sites, and commercial buildings.



Benefits

- Scalable from 360 kW to 480 kW (with 30kW power module) or from 480 kW to 720 kW (with 40kW power module).
- Highly customizable to align with your specific needs.
- Anti-tripping and cost-optimized load management powered by EcoStruxure EV Charging Expert.
- End-to-end support to bring your project to life and keep it running smoothly.
- Fully integrated with Schneider Electric's end-to-end solutions, enabling effortless incorporation of electric mobility into your existing infrastructure.

Unique features

High power, high efficiency

- 97% efficiency of power module
- Boostable to 600A for floor-standing dispenser
- Boostable to 500A for overhead dispenser
- Anti-tripping and smart cost management with EcoStruxure EV Charging Expert

Advanced connectivity for seamless supervision and user experience

- Embedded Wi-Fi and 4G modem enabling remote monitoring and smart charging
- Interoperability certified with dozens of Charging Station Management Systems
- Flexible authentication options: ISO 15118, autocharge for both dispenser models; payment terminal, RFID, and QR code, for floor-standing dispenser only.
- CSMS notification in case of power outage

Fleet friendly

- eBus preconditioning capability (VDV261)
- Restart of the charge after completion (BCB Toggle wake-up)

Maximum uptime with 360 support

- On-site or remote customer support in local language
- Cloud-based maintenance platform that enables remote services from our Schneider Electric experts
- Preventive maintenance thanks to sensors
- High repairability level
- Full spectrum of services to cover the offer lifecycle

Built to perform, built to last

- 100% robust-tested
- Compliant with the latest market standards
- High-performance charging in harsh environments (IP55)
- -30°C/+50°C temperature resistance without derating
- C4M corrosion protection (enclosure)
- Metal housing for outdoor/ indoor use
- Embedded protections (MCB, SPD)

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Schneider StarCharge Fast 720 – Power cabinet



Power cabinet characteristics

Characteristics	
Range	Schneider StarCharge Fast
Product name	Schneider StarCharge Fast 720
Product type	DC charging station
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	Up to 97% power modules
THDi	≤ 5% at nominal output power without any additional filter
Standby power	80 W
Protection	Protected against short circuit, overload, overheating, and temperature regulated
Overvoltage category	OVC III
Rated conditional short-circuit current	50 kA
Charger interfaces	
Output characteristics	– 12 outputs – Output current: 380 A rated current with 600A for floor-standing and 500A for overhead dispenser – Output voltage: 150–1000 V per output
Configuration	– Compatible with Schneider StarCharge Fast 720 Dispenser – Manage up to 6 floor-standing or 12 overhead dispensers – Each dispenser can be located up to 80 m from power cabinet
Dynamic-simultaneous charging	It is possible to charge up to 12 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.



Power cabinet communication and functions

Communication and functions	
Local signal	1x multi-color LED for status of the charging station
Communication port protocol	– OCPP 1.6 Json smart charging including security part – ISO15118/DIN 70121 – VDV 261 – BCB toggle wake-up – Modbus TCP
Network connection	– Wi-Fi (802.11 b/g/n, 2.4GHz) – Ethernet (RJ 45) 10/100 Base T – Modem 4G (4G, GSM, WCDMA, LTE-FDD and LTE-TDD)
Function available	– Load management – Diagnosis capabilities – Software updates – 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

* To check availability, please contact Schneider Electric front offices.

Environment

Environment	
Standard compliance	EN IEC 61851-1:2019/AC:2023-12 EN 61851-23:2014/AC: 2016-06 EN 61851-24:2014/AC: 2015 EN 62311:2008, EN IEC 62311:2020 EN IEC 61851-21-2:2021 EN 61000-6-2:2005/AC:2005, EN IEC 61000-6-2:2019 EN 61000-6-4:2007/A1:2011, EN IEC 61000-6-4:2019 EMC Class A **Radio certification** 2/3/4G: EN 301 511 V12.5.1 (2017-03) 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 301 908-13 V13.3.1 (2024-10) Wi-Fi: EN 300 328 V2.2.2 (2019-07) RED DA: EN 18031-1/2/3: 2024 **EMC radio equipment** 2/3/4G, Wi-Fi: EN 301 489-1 V1.9.2 (2011-09), EN 301 489-1 V2.2.3 (2019-11) EN 301 489-17 V3.2.4 (2020-09) EN 301 489-52 V1.2.1 (2021-11)
Product certifications	CE
IP degree of protection	IP55
IK degree of shock protection	IK10
Ambient air temperature for operation	-30 to +55°C derating above 50°C
Ambient air temperature for storage	-40 to +70°C



Relative humidity	5 to 95 %
Operating altitude	Up to 2000 m (without physical derating)
Acoustic noise	Variable under load: 0 to 70 dB @ 25°C (1 meter)
Sensors	Humidity sensor; door sensor; tilt sensor; water ingress sensor; fan sensors
Charge interrupt button	Yes
Housing corrosion protection	C4M
Charging station colors	– Front face: RAL 9003 – Side and rear: dark grey silver and RAL 9005
Material charging station	430 stainless steel
Cooling	Filter air cooling
Mounting mode	Floor standing

Current information and protections to use with Schneider StarCharge Fast 720 – Power cabinet

Current information and protections				
Current				
Power		360 kW	480 kW	720 kW
	Rated current*	570 A	759 A	1139 A
	Max current*	633 A	843 A	1266 A
Suggested protections				
Circuit breaker (overcurrent)		3P+N or 4P	3P+N or 4P	3P+N or 4P
Schneider Electric™ offer range		ComPacT NSX630 4P3D/4P4D 500A * 2 + Optional: VigiPacT Earth-leakage add-on protection module	ComPacT NSX630 4P3D/4P4D 500A * 2 + Optional: VigiPacT Earth-leakage add-on protection module	ComPacT NS800 4P3D/4P4D 500A * 2 + Optional: VigiPacT Earth-leakage add-on protection module

* There are two incoming power lines inside the power cabinet. It is recommended to have two power supply circuits and circuit breakers upstream. The circuit breakers and cables for each circuit should be selected according to half of the rated current and maximum current of power cabinet.

Note: If planning to upgrade power of the power cabinet at a later stage, consider the protection sizing accordingly.



Environmental data

Offer sustainability	
EU RoHS Directive	Compliant
Mercury free	Yes
RoHS exemption information	Yes
Environmental disclosure	Product Environmental Profile
Circularity profile	End of life information
REACH regulation	Compliant

Power cabinet dimensions

Charging station dimensions	
Dimensions	H 2206 x W 1503 x D 1220 mm

Schneider StarCharge Fast 720 Power cabinet references

Reference	Power	Power module	Weight without power module	Weight with power module
EVD1S360	360 kW scalable up to 480 kW	30 kW	824 kg	1016 kg
EVD1S483	480 kW	30 kW	824 kg	1080 kg
EVD1S480	480 kW scalable up to 720 kW	40 kW	922 kg	1126 kg
EVD1S720	720 kW	40 kW	922 kg	1228 kg

Schneider StarCharge Fast 720 – Floor-standing Dispenser



Floor-standing Dispenser characteristics

Characteristics	
Range	Schneider StarCharge Fast
Product name	Schneider StarCharge Fast Dispenser
Product type	DC dispenser compatible with Schneider StarCharge Fast 480/720
Device short name	EVD1D720
Connections between dispenser and power cabinet	
DC power cable per vehicle connector	1000 VDC
Rated supply voltage	220 V – 240 Vac +/- 10% 50/60 Hz
Communication	Ethernet (RJ 45) 10/100 Base T
Electrical characteristics	
Power supply	1 PH
Poles description	L1 + N
Earthing system	– TT – TN-S/TN-C-S – Compatible IT with additional isolation transformer on the power supply
DC meter	Each DC output includes Class B DC PTB/MID meter (1% accuracy at full scale) Visible by any user
Standby power	< 55 W
Protection	Protected against short circuit, overload, and overheating. Temperature regulated
Overvoltage category	OVC III
Charger interfaces	
Vehicle connector number	2
Output type	CCS2
Output voltage	150 – 1000 VDC
Output current	380 A rated current with boost mode up to 600 A
Dynamic-simultaneous charging	It is possible 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.



Floor-standing Dispenser communication and functions

Communication and functions	
Local signal	1x multi-color LED for status indication for each vehicle connector
User interface	7" 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. It is possible to add additional languages.
Communication port protocol	– ISO15118-2 – DIN 70121 – VDV 261 – BCB toggle wake-up
Access control system	– Free Charging – 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) – On screen QR code and 3rd party Application – Payment terminal (option available in Europe and Australia)
Function available	– Load management – Diagnosis capabilities – Software update – Real-time charge cost display – EV driver HMI customization for tariff display – EV driver HMI logo and screen saver 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	Natural air cooling
Easy to use	Accessible to disable people (depending on the standards applicable in the country)
Mounting mode	Floor standing



Environment

Environment	
Standard compliance	EN IEC 61851-1:2019/AC:2023-12 EN 61851-23:2014/AC:2016-06 EN 61851-24:2014/AC:2015 IEC/EN IEC 62196-1 & IEC 62196-3 EN 62311:2008, EN IEC 62311:2020 EN IEC 61851-21-2:2021 EN 61000-6-2:2005/AC:2005, EN IEC 61000-6-2:2019 EN 61000-6-4:2007/A1:2011, EN IEC 61000-6-4:2019 EMC Class A **Radio certification** RFID/NFC: EN 300 330 V2.1.1 (2017-02) RED DA: EN 18031-1/2/3: 2024 **EMC radio equipment** RFID/NFC: 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 301 489-52 V1.2.1 (2021-11)
Product certifications	CE
IP degree of protection	IP55
IK degree of shock protection	IK10 – screen IK08
Ambient air temperature for operation	-30 to +55°C derating above 50°C
Ambient air temperature for storage	-40 to +70°C
Relative humidity	5 to 95 %
Operating altitude	Up to 2000 m (without physical derating)
Acoustic noise	Variable under load: 0 to 45 dB at 25 °C (1 meter in front of the charger)
Sensors	Humidity sensor; door sensor; tilt sensor; water ingress sensor; fan sensors. Buzzer and alarm if output cable is cut.
Charge interrupt button	Yes
Housing corrosion protection	C4M
Charging station colors	– Front face: dark grey silver and RAL 9005 – Side: RAL 9003 and RAL 9005 – Rear: dark grey silver
Material charging station	430 stainless steel



Environmental data

Offer sustainability	
EU RoHS Directive	Compliant
Mercury free	Yes
RoHS exemption information	Yes
Environmental disclosure	Product Environmental Profile
Circularity profile	End of life information
REACH regulation	Compliant

Floor-standing Dispenser dimensions

Dispenser dimensions	
Dimensions (with cable management)	H 2200 x W 720 x D 720 mm
Dimensions (without cable management)	H 2200 x W 720 x D 720 mm

Schneider StarCharge Fast DC 720 Floor-standing Dispenser references and accessories

Reference	Connector	Weight	Payment terminal	Cable range	Cable management	Eichreicht
EVD1D720TBB	2x CCS2	240 kg	No*	4.1 m	Yes	No
EVD1D720T0B	1x CCS2	212 kg	No	4.1 m	Yes	No
EVD1D720TBBCC	2x CCS2	240 kg	Yes (Payter Apollo)	4.1 m	Yes	No
EVD1D720TBBC7	2x CCS2	236 kg	No	6.9 m	No	No
EVD1D720TBBC10	2x CCS2	259 kg	No	9.4 m	No	No
EVD1D720T0BC7	1x CCS2	212 kg	No	6.9 m	No	No
EVD1D720T0BC10	1x CCS2	221 kg	No	9.4 m	No	No
EVD1D720TBB-G	2x CCS2	240 kg	No*	4.1 m	Yes	Yes
EVD1D720T0B-G	1x CCS2	212 kg	No	4.1 m	Yes	Yes
EVD1D720TBBCC-G	2x CCS2	240 kg	Yes (Payter Apollo)	4.1 m	Yes	Yes
EVD1D720TBBC7-G	2x CCS2	236 kg	No	6.9 m	No	Yes
EVD1D720TBBC10-G	2x CCS2	259 kg	No	9.4 m	No	Yes
EVD1D720T0BC7-G	1x CCS2	212 kg	No	6.9 m	No	Yes
EVD1D720T0BC10-G	1x CCS2	221 kg	No	9.4 m	No	Yes

Accessory reference	Description
EVP1BNS	10 RFID badges

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

Schneider StarCharge Fast 720 – Overhead Dispenser



Overhead Dispenser characteristics

Characteristics	
Range	Schneider StarCharge Fast
Product name	Schneider StarCharge Fast Dispenser
Product type	DC dispenser compatible with Schneider StarCharge Fast 480/720
Device short name	EVD1P720
Connections between dispenser and power cabinet	
DC power cable per vehicle connector	1000 VDC
Rated supply voltage	220 V – 240 Vac +/- 10% 50/60 Hz
Communication	Ethernet (RJ 45) 10/100 Base T
Electrical characteristics	
Power supply	1 PH
Poles description	L1 + N
Earthing system	– TT – TN-S/TN-C-S – Compatible IT with additional isolation transformer on the power supply
DC meter	DC output includes Class B DC CE meter (1% accuracy at full scale)
Standby power	< 20 W
Protection	Protected against short circuit, overload, and overheating. Temperature regulated
Overvoltage category	OVC III
Charger interfaces	
Vehicle connector number	1
Output type	CCS2
Output voltage	150 – 1000 VDC
Output current	380 A rated current with boost mode up to 500 A



Overhead Dispenser communication and functions

Communication and functions	
Local signal	1x multi-color LED for status indication for each vehicle connector
Communication port protocol	– ISO15118-2 – DIN 70121 – VDV 261 – BCB toggle wake-up
Access control system	– Free Charging – ISO15118 Plug and Charge – Autocharge (EV Mac address) – 3rd party Application
Function available	– Load management – Diagnosis capabilities – Software update – 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
Cooling	Natural air cooling
Easy to use	Accessible to disable people when installed on a wall (depending on the standards applicable in the country)
Mounting mode	Wall mounting or gantry mounting



Environment

Environment	
Standard compliance	EN IEC 61851-1:2019/AC:2023-12 EN 61851-23:2014/AC:2016-06 EN 61851-24:2014/AC:2015 IEC/EN IEC 62196-1 & IEC 62196-3 EN IEC 61851-21-2:2021 EN 61000-6-2:2005/AC:2005 EN IEC 61000-6-2:2019 EN 61000-6-4:2007/A1:2011 EN IEC 61000-6-4:2019 EMC Class A
Product certifications	CE
IP degree of protection	IP55 dispenser box IP54 CCS2 connector with cap
IK degree of shock protection	IK10
Ambient air temperature for operation	-30 to +55°C derating above 50°C
Ambient air temperature for storage	-40 to +70°C
Relative humidity	5 to 95 %
Operating altitude	Up to 2000 m (without physical derating)
Acoustic noise	Variable under load: < 49.9dB (1 meter in front of the dispenser)
Sensors	Humidity sensor; door sensor; tilt sensor; fan sensors. Alarm if output cable is cut.
Charge interrupt button	Yes
Housing corrosion protection	C4M
Charging station colors	– Front face: dark grey silver and RAL 9005 – Side: RAL 9003 and RAL 9005 – Rear: dark grey silver
Material charging station	430 stainless steel



Environmental data

Offer sustainability	
EU RoHS Directive	Compliant
Mercury free	Yes
RoHS exemption information	Yes
Environmental disclosure	Product Environmental Profile
Circularity profile	End of life information
REACH regulation	Compliant

Overhead Dispenser dimensions

Dispenser dimensions	
Dimensions	H 584 x W 590 x D 342mm

Schneider StarCharge Fast DC 720 Overhead Dispenser references and accessories

Reference	Connector	Weight	Cable range
EVD1T720P0B	1 X CCS2	~70 kg	10 m

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