Schneider Charge

Characteristics

Charging station offer

Charging power:
Attached cable version: 5 m or 7 m with T2 connector:
7.4 kW single-phase or 11 kW three-phase

T2S version:
7,4 kW 1-phase and 11 kW/22 kW 3-phase

- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with shutter
- Attached cable (5 m or 7 m) with T2 connector

Power supply network

- 230 V +/- 10% single-phase - 50-60 Hz for 7,4 kW charging stations
- 400 V +/- 10% three-phase - 50-60 Hz for 11 kW/22 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S, IT/TT without Neutral (230 V AC only)

Mechanical and environmental characteristics

- Ingress protection code: IP55
- Impact protection code: IK10
- Operating temperature:

	T2 socket outlet	Attached cable
1P 32 A	-30...50°C	-35...50°C
3P 16 A	-30...55°C	-35...55°C
3P 32 A	-30...45°C	

- Storage temperature: -40°C to +85°C
- Relative humidity 5% to 95%
- Altitude < 2000 m
- Attached cable length: 5 m for versions supporting it

Dimension

- Attached cable version: 352x244x107 mm
- T2S version: 352x244x117 mm
- Weight:

T2 socket outlet	Attached cable	
	1P + N	3P + N
3.3 kg	5m: 4.5 kg 7m: 5.3 kg	5m: 4.5 kg 7m: 5.2 kg

Installation

- Wall mounting

Anti-tripping

- Exclusive energy management options: real-time maximum charging current control (with the addition of an external anti-tripping module)
- Power Line Carrier communication between the charging station and the anti-tripping module

Services offer

- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center

Commissioning:

- eSetup mobile phone application or Wiser Home (according to your country)

Operation

Interoperable with EV charging applications
- Wiser (France, Germany, Spain, Portugal, Sweden, Norway, Finland, Denmark)
- Third party EV charging applications

Certification

Schneider Charge has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards

EN 61851-1 Ed3.0 (2019)
EN61000-6-1
EN61000-6-3
IEC61851-21-2

Green Premium™ Product

> ROHS compliant
> Reach compliant
> EoLi: End Of Life Process
> Product Environmental Profile compliant

Charging station references

Schneider Charge

EVH5A22N2S

Schneider Charge					
References [1]	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH5A22N2S	1P/3P+N	T2S	(7.4)(11)/22	32A	with 6 mA DC filter
With attached 5 m[1] cable and T2 connector					
EVH5A07N2C5	1PH	-	7.4	32A	with 6 mA DC filter
EVH5A11N2C5	3PH	-	11	16 A	with 6 mA DC filter
With attached 7 m[1] cable and T2 connector					
EVH5A07N2C7	1PH	-	7.4	32A	with 6 mA DC filter
EVH5A11N2C7	3PH	-	11	16 A	with 6 mA DC filter

[1]References to be defined and local availability to be checked by Schneider Electric front offices.

Schneider Charge with TIC[2] (France offer)					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH5A22N400F	1P/3P+N	T2S	(7.4)(11)/22	32A	with 6 mA DC filter

[2]For France only : TIC- Anti-tripping module connected to the energy meter (Linky)

Protections and options with Schneider Charge

Description			
Charging	Single-phase	Three-phase	
Rated Power - Current	7.4 kW - 32 A	11 kW - 16 A	22 kW - 32 A
Protection			
Circuit breaker (overcurrent) [1]	40 A Curve C	20 A Curve C	40 A Curve C
RCD (residual current) [1]	30 mA A-SI Type [2]	30 mA A-SI Type [2]	30 mA A-SI Type [2]
Under voltage tripping auxiliary [3][4]	iMNX	iMNX	iMNX

[1] References to be defined and local availability to be checked by Schneider Electric front offices.
[2] In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulation.
[3][4] iMNX is mandatory in case of charging station damage following a downstream short circuit.

Commission and control Schneider Charge from the palm of your hand

Wiser
(Available in France, Germany, Spain, Portugal, Sweden, Norway, Finland and Denmark)

Easy to sign up:
- Download Wiser on Appstore and Google Store
- Scan your charger QR code to pair your charger

Schedule and adapt:
- Plan your charging time
- Adjust your energy mix
- Start the charge, and travel

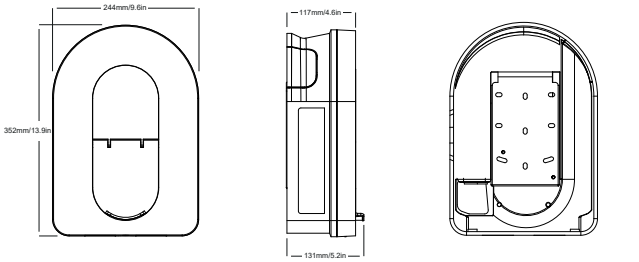
History:
- Track your charging sessions and better understand the energy consumption related to your EV.

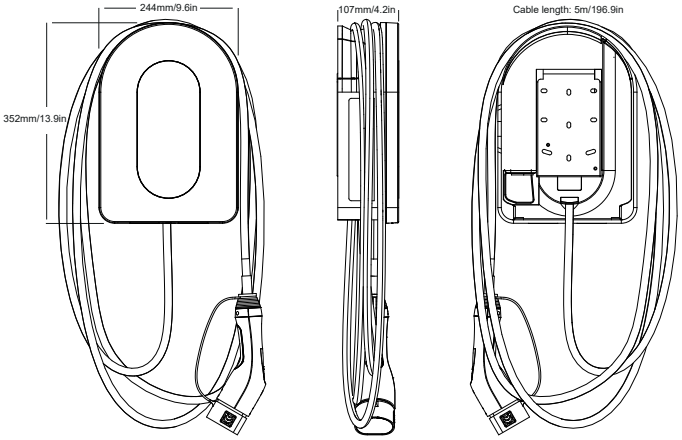
Third-party EV charging applications
Monitor, control the EV charging station, and much more

- Monitoring, scheduling and cost optimization.
- Plus other features depending on the application (smart charging, grid services…)

Schneider Charge

Charging stations dimensions





With socket outlets

≈ 3.2 kg (7.05 lb)
T2 – 7.4 kW / 11 kW / 22 kW

With attached cable

5 m ≈ 4.5 kg (9.92 lb) – 7.4 kW
7 m ≈ 5.3 kg (11.68 lb) – 7,4kW

5 m ≈ 4.5 kg (9.92 lb) – 11 kW
7 m ≈ 5.2 kg (11.46 lb) – 11 kW

Watch the video

Accessory references

EVlink Cable for T2 and T2S charging station

To connect the car to the charging station. Available in different lengths with a T2 connector.

Please refer to page 40

Technical documentation

Please refer to bibliography in Appendix

Anti-tripping module

Characteristics

1-phase Universal Peak controller:

EVA4HPC1
from 16 A to 50 A

EVA2HPC1
from 32 A to 100 A

3-phase Universal Peak controller:

EVA2HPC3
from 16 A to 50 A

Standards

EN 61326-1-2013
EN 61010-1-2010

Main function

- Home Anti-tripping is a power load management system that adapts the power supplied to charge the car continuously, taking home consumption into account*.
- The power availability is calculated by the Home Anti-tripping System comparing the utility power limit and the home consumption gathered by a current transformer positioned on the bottom of the main circuit breaker.
- For photovoltaic application it continuously adapts the charging power taking home consumption and self-generated energy (PV, wind, storage...) into account.

* The Anti-Tripping Module limits the maximum power draw of the charging station, in some cases completely stopping the charging according to the power available in the electrical installation, especially if the home is equipped with a heat pump. Minimum recommendation: 25A 3P+N.

Pairing functionality:

- Pairing functionality with Schneider Charge charging station. Up to 6 pairs can be used at the same time within PLC function range (200-meter power cable length).

Power supply network and electrical characteristics

- 220/230 V (+/- 10%) 50 Hz (+/- 10%)
- TT, TN, IT/TT without Neutral (230V AC only)
- Rated power 4W
- Overvoltage category: III, Pollution degree: 2
- Insulation degree: reinforced insulation

Mechanical and environmental

- Dimension 70.4 x 93.2 x 68.8 mm
- Weight 196 g
- Mounting type: Top-hat rail mounting
- Nominal temperature -30°C to +50°C

Settings

- Possible current value settings:
- 1P (EVA4HPC1): 16A, 20A, 25A, 32A, 40A and 50A
- 1P-HR (EVA2HPC1): 32A, 40A, 50A, 63A, 80A and 100A
- 3P (EVA2HPC3): 16A, 20A, 25A, 32A, 40A and 50A

Communication

- Communication with Schneider Charge range of charging stations via Power Line Carrier

Technical documentation

Please refer to bibliography in Appendix