

Why use a charging station in Mode 3 instead of a regular domestic socket outlet in Mode 2?

- Get a full charge in much less time.
- Reduce the exposure to electrical risks: unlike a domestic socket outlet, the wallbox is designed to deliver a high current for several hours every day.
- Open to the energy management: charging start-up can be postponed to off-peak hours. Charging power can be temporarily reduced to limit overall building consumption.



Mode 2: 2.3 kW



Mode 3: 3.7 kW to 22 kW

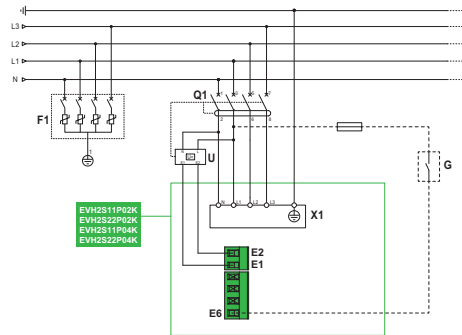
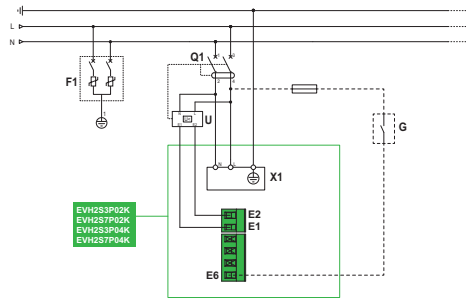
Average time to fully charge a 24 kWh car battery



Connection diagrams

Q1: residual current and over-current protections
 F1: surge arrester (optional)
 U: undervoltage release MNx (optional, except for compliance with EV Ready and ZE Ready labels)

E1, E2: terminal block for undervoltage release
 E6: power limitation or deferred start input
 G: contact for power limitation or deferred start
 X1: power terminal block

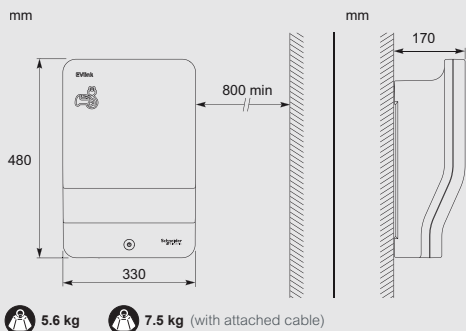


Related products



Charging cable
 (length: 5 m)

T2/T1	32 A – 1 Ph	EVP1CNS32121
T2/T2	32 A – 1 Ph	EVP1CNS32122
	32 A – 3 Ph	EVP1CNS32322



Technical characteristics

- Standards: EC/EN 61851-1 ed 2.0; IEC/EN 61851-22 ed 1.0; IEC/EN 62196-1 ed 2.0; IEC/EN 62196-2 ed 1.0
- Voltage: 220 – 240 V single-phase — 50/60 Hz
 380 – 415 V three-phase — 50/60 Hz
- Ingress protection code: IP54
- Impact protection code: IK10
- Operating temperature: -30 °C to +50 °C
- Storage temperature: -40 °C to +80 °C
- Attached cable length: 4 m
- Energy management: deferred charging start or charging current limitation (16 A to 10 A, 32 A to 16 A)
- Access control: key lock



EV simulator

To check proper operation of the charging solution

NCA93100

Charging	Wallbox	Single phase		Three phase	
		3.7 kW – 16 A	7.4 kW – 32 A	11 kW – 16 A	22 kW – 32 A
	T2 with shutters	EVH2S3P04K	EVH2S7P04K	EVH2S11P04K	EVH2S22P04K
Protection and control	Overcurrent	20 A Curve B or C ⁽¹⁾	40 A Curve C	20 A Curve C or D ⁽¹⁾⁽²⁾	20 A Curve C
		References tbd by Front offices			
	Residual current	30 mA type Asi ⁽³⁾	30 mA type Asi ⁽³⁾	30 mA type B	30 mA type B
		References tbd by Front offices			
	Undervoltage release MNx	References tbd by Front offices			
Overvoltage protection	Surge arrester	References tbd by Front offices			
Contactors for deferred start	Acti 9 ICT	A9C23715	A9C23715	A9C23715	A9C23715
Load-shedding	DSE'clac	15910	15910	15910	15910

(1) Depends on the coordination with the upstream protections.

(2) Depends on the risk of untimely tripping due to the vehicle inrush current when starting the charge.

(3) A type B may be required in some countries. Refer to local regulations.

