



# Duo

Specifications

## General characteristics

Reference number	6011810 / 6032110 / 6016160 / 6032160 / 60081812 / 60081112 / 60081612 / 60081813 / 60081114 / 60081614/60102215/60102205/60080199 / 60080198
Reference number (Eichrecht)	60451810 / 60451110 / 60451610
Dimension H x W x D (mm)	1400 x 220 x 240
Casing material	Steel 2,2 mm
Standard colour	Body: Ral 6018 / Cover: Ral 9016 for 60451810 / 60081812 / 60081813 / 60102215 / 60102205 / 60080199 / 60080198 Body: Ral 7011 / Cover: Ral 9016 for 6011810 / 6032110 / 60451110 / 60081112 / 60081114 Body: Ral 9016 / Cover: Ral 9016 for 6016160 / 6032160 / 60451610 / 60081612 / 60081614
Steel treatment	Anti-corrosion (KTL) and powder coating
Weight (kg)	45 kg for 60451810 / 60451110 / 60451610 / 60081812 / 60081112 / 60081612 / 60081813 / 60081114 / 60081614 49 kg for 6011810 / 6032110 / 6016160 / 6032160 / 60102215 / 60102205 / 60080199 / 60080198
Number of charging points	2
Socket	Type 2
Cable	Type 2

## Electrical characteristics

Power output per socket	0 to 22 kW for 6032110 / 6032160 / 60451810 / 60451110 / 60451610 / 60081812 / 60081112 / 60081612 / 60081813 / 60081114 / 60081614 / 60102215 / 60102205 0 to 11 kW for 6011810 / 6016160 / 60080199 / 60080198
Operating voltage (U <sub>e</sub> ) / Rates current (I <sub>n</sub> A) for the charger	Single-phase cabling, phase + N 230V~ from 0 to 63A (determined at 20°C) Three-phase cabling, 3 phases + N 400V~ from 0 to 63A (determined at 20°C)
Operating voltage (U <sub>e</sub> ) / Rates current (I <sub>n</sub> A) per charge point	Single-phase cabling, phase + N 230V~ from 0 to 32A (determined at 20°C) Three-phase cabling, 3 phases + N 400V~ from 0 to 32A (determined at 20°C)
Impulse voltage (U <sub>imp</sub> )	4kV
Insulation voltage (U <sub>i</sub> )	230V single-phase 500V three-phase
Frequency (f <sub>n</sub> )	50Hz/60Hz
Rated voltage	1 phase + N: 230V - 3 phases + N: 400V
Voltage tolerance (V) regardless of vehicle requirements	195V - 265V
Integrated protection system on charging station	Fuse type gG 63A
Integrated protection system per charge point	Fuse type gG 32A + RCD 40A 30mA Type B

Conditional short-circuit	100kA IEC/EN 60898-1
Allowable thermal stress in Short Circuit	16 000 A <sup>2</sup> s
Connection to the mains	Phase/Neutral, rigid cable, 2.5 to 35 mm <sup>2</sup> , screw terminals H07 V R/U Earth, rigid cable, 2.5 to 35mm <sup>2</sup> , screw terminals H07 V R/U
Type of load	Mode 3 charging terminal equipped with a locking system for Mode 3
Vehicle connection Mode 3 connector socket (60451810 / 60451110 / 60451610 / 60081812 / 60081112 / 60081612 / 60081813 / 60081114 / 60081614)	Type 2 3P+N (single-phase compatible) with pilots compliant with IEC 62191-1 and IEC 62196-2. Use only a manufacturer-approved plug with silver-plated contacts. Use of extension and adapter prohibited.
Vehicle connection Mode 3 attache cable connector (60111810 / 60321110 / 60161610 / 60321610 / 60102215 / 60102205 / 60080199 / 60080198)	Type 2 3P+N (single-phase compatible) with pilots compliant with IEC 62191-1 and IEC 62196-2. Use of extension and adapter prohibited. 60080199 / 60080198: 4m curl 3x16A 60111810 / 60161610: 4m straight 3x16A 60321110 / 60321610 / 60102215 / 60102205: 8m straight 3x32A
Phase rotation on channel 2 (Rightside).	In the case of monophasic cabling (Ph+N) on the power source. Channel 2 will not be able to start charging sessions, until the phase rotation between contactor and socket are manually undone.
AC meters	MID certified, Class B according to EN 50470-1, -3
Back office protocol	OCPP 1.6 J20
Positioning	GPS
Connectivity Ethernet	RJ45 connector for 60451810 / 60451110 / 60451610 / 60081813 / 60081114 / 60081614 / 60102215 / 60080199

## Environment

Operating temperature	-25°C / +50°C
Storage temperature	-25°C / + 80°C
Relative humidity	0 to 90% without condensation
Corrosivity class	C4 according to the IEC 9223 and IEC 12944 3C3/4C3 according to the IEC 60721-3
Protection rating	IP 54 (IEC 60529), IK 10 (EN 62262) Plugged in or not
Vandalism resistance	IK10
Noise level	< 40 dBA at 1m
Product	IEC 61851-1, IEC TS 61439-7 (AEVCS)
Installation	Interior or exterior, limited access zone, intended for use by ordinary persons (DBO), assembly in cabinet (wall mounted), Pollution Degree 3, TNS, TT, compatible earthing system. In the event of an IT earthing system, this can be changed locally by adding an isolation transformer.
Electrical safety	Class 1 IEC 61140

## Electromagnetic compatibility

European standards	Low Voltage Directive 2014 / 35EU / EMC Directive: 2014 / 30 / EU
Radio technology type	GSM 2G/3G/4G, GPRS, RFID
Suitable charging cards	Mifare, Ntag and iCODE SLI cards ( <a href="#">more info</a> )



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