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EN

Duo

V.1 - Technical datasheet
November 2024

Duo

public charging station in the size of a wallbox. A single power supply for both outlets, a large screen, and complete connectivity make Duo a charger suitable for both domestic and public use.

+ with integrated protections

Duo T
with cable
* with integrated cable holder

Duo S
with socket

Features

+ Charging up to 2 x 22.2 kW
+ Single power supply
+ Bluetooth and WiFi connectivity
+ 2 x Ethernet slot (Daisy Chain ready)
+ Optional embedded 4G USB modem
+ Load Balancing up to 25 chargers (50 charging points)
+ Charging scheduling

+ Optional MID-certified meter
+ Dual RFID reader
+ Inspection key
+ Integrated release coil
+ Integrated cooling and ventilation system
+ OCPP 1.6 JSON interoperability

Technical datasheet

	Single-phase version	Three-phase version

General specification

Product type	Electric vehicle AC charging device	
Charging mode	Mode 3	
Connector (Duo T)	2 x integrated spiral cable Type 2	
Connector (Duo S)	2 xX Type 2 socket	
Type 2 operational cable length connector (Duo T)	5 m at maximum extension	
Charge points	2	
Schuko socket	No	
Dimensions (Duo T)	557 x 279 x 159 mm	
Dimensions (Duo S)	557 x 279 x 159 mm	
Cover color	White	
Weight (Duo T)	~ 9 Kg	~ 10 Kg
Weight (Duo S)	~ 6 Kg	~ 10 Kg
Standby consumption	< 10 W depending on configuration (WiFi, LTE, POS)	

Electrical specifications

Connection	N+L+PE	N+L1+L2+L3+PE
Rated current	Adjustable from 13 A to 64 A	
Rated power	Adjustable from 3.0 kW to 14.8 kW	Adjustable from 9.0 kW to 44.4 kW
Voltage	230 V ±10%	400 V ±10%
Frequency	50–60Hz	
Network configuration	TT /TN	
Maximum terminal block cross-section	25 mm^2	
Bidirectional power transfer (V2G)	Not supported	

Connectivity

Bluetooth connectivity	BLE 4.2
Internet connectivity	WiFi, Ethernet, and optional 4G GSM with USB modem and nano SIM
Software update	Via Internet
Internet interoperability protocol	OCPP 1.6 Json
Management system interfaces	Via Modbus TCP over Ethernet or WiFi
TX power	BLE +4dBm – WiFi 2.4G +20,5 dBm – 4g +23dBm – DCS +30 dBm – GSM +33dBm
Operating frequencies	BLE 2402–2480 MHz, WiFi 2.4G: 2412–2472 / 2422–2462 MHz, LTE-FDD B1/B3/B5/B7/B8/B20, GSM/GPRS/ EDGE 900/1800 MHz

Features

User Interface	Daze App (Android or iOS), Web Portal, LED Matrix Display, Sound Indicator
MID-certified energy metering	Optional
RFID reader	Yes, one reader for each socket with card identification
Compatible RFID cards	Mifare_UltraLight / Mifare_One (S50) / Mifare_One (S70) / Mifare_Pro (X) / Mifare_DESFire
Offline-site configuration	Via App via Bluetooth
Remote command and configurations	Via App or Web Portal via Internet
User and admin management	Via App or Web Portal
Authorization options setup	Via App or Web Portal
Charging scheduling	Via App or Web Portal
Load Balancing the energy supply connection	Optional, requires power manager module
Max. number of charge points in Load Balancing	48 (Master/Slave on Modbus TCP Ethernet or WiFi)
Self-consumption mode (only solar excess)	Yes

Safety

Key lock	Yes	
Intrusion monitoring	Via optical sensor	
Temperature monitoring	Integrated with overheating protection	
Fire safety	UL94 V-0	
DC Residual current detection	Integrated, 6 mA DC	
Surge category	OVC III	
RCBO differential magnetic circuit protection	Integrated, one protection for each connection point	
1. Nominal current	40 A	40 A
2. Differential protection type	Type A	Type A
3. Tripping curve	C	C
4. Differential leakage current	30 mA	30 mA
5. IGA interruption power	6 kA	10 kA
6. Reference standard	EN 61009–1, EN 61009–2–1	EN 61009–1, EN 61009–2–1
Upstream relay	Yes	

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	Single-phase version	Three-phase version

Environmental resistance

IP Protection rating	IP55
IK Protection rating	IK10
Operating environment	Indoor and Outdoor
Operating temperature	From –30 °C to +55 °C
Storage temperature	From –30 °C to +60 °C
Maximum installation altitude	2000 m above sea level

Installation

Rated current configuration	Via Dip Switch
Charger and accessory configuration	Via App
Mounting	Wall or on SD01 ground supports
Cable entry routing	Underfloor or exposed with section from 6mm² up to 25mm²

Certifications

Certification	CE
International reference standard	IEC EN 61851-1, IEC EN 61851-21, IEC EN 62196-2

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