Dash 30

Technical Specifications





Product Variants

Product variant	Article no.
Dash 30	904330001
General Specifications	
DC Charging Socket	1x CCS2, in accordance with IEC62196-3
Install location	Indoor & Outdoor
Authentication methods	RFID card Back office Plug & Charge
Metering	AC metering, MID (class B), charger consumption Included
Main Switch for service included	1 feeder cable
Norms and Standards	
EVSE standards	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24
Protocols for EV & EVSE communication	ISO 15118-2 ready, DIN SPEC 70121
Electrical Characteristics	
Power input	
Input voltage	3P+ N (400 V/230 V +/- 10%), 50 Hz +/- 5%, TN-C, TN-S, TN-C-S, TT
Input current	≤ 3x50 A RMS (Nominal)
Power Factor	Rated output Load ≥ 0.99
Current THD	< 5% @ full load
Efficiency	> 95%
Power output	
Output power and voltage	30 kW, 200 - 910 V DC
Output current	\leq 80 A DC (certified), (\leq 91 A DC tested during certification)
Standby	
Consumption	≤ 40 W

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Safety (internal)

Protection	Overload Under- & over-voltage Surge protection Type 1+ Type 2/ Class I + Class II Over temperature DC Insulation monitoring
Main Switch (AC - located inside wall bracket or inside pole)	4P, 63 A, 400 V
Impact resistance	IK10
Protection rating	IP55
Over voltage category	Category III
Protection Class	Class I (protective earth connection)

Safety (external)

Alfen recommends an MCB type B with short circuit prospective value of 10 kA RMS upstream

Residual current protection	Alfen recommends upstream residual current protection with RCD 6 mA
	(DC) and 30 mA (AC), coordinated with the selected overcurrent protection
	device

Environmental characteristics

Operating temperature *	-25°C to +50°C (derating applied over +50°C ambient after 2 hours)
Storage temperature	-40°C to +85°C
Transportation temperature	-40°C to +85°C
Cooling	Forced air
Humidity during operation	5% to 95% relative humidity, non-condensing
Noise levels at full power	<60 dBA in all directions, measured at 1 m distance
Maximum altitude	Certified up to 2000 m

 $[\]ensuremath{^{\pmb{\ast}}}$ The operating temperature is stated under the following condition: outside direct sunlight

EMC Class

Emissions	Class B
Immunity	Class A

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Casing

Casing dimensions (W x H x D) Packaging dimensions (W x H x D) Pac		
Packaging dimensions (W x H x D) Approx. 65 kg (without cable, without pole) JSer Interface Display type 7" IPS color display Resolution 1024 x 600 pixels Brightness 1000 Nits Contract ratio 800:1 Communication Interfaces Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1 Backend support OCPP stack • OCPP 16J Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Туре	Wall-mounted and pole-mounted charging station
Display type 7" IPS color display Resolution 1024 x 600 pixels Brightness 1000 Nits Contract ratio 800:1 Communication Interfaces Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1 Backend support OCPP stack • OCPP 1.6] Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • ISO 15118 Plug & Charge • Back office • Third-party apps	Casing dimensions (W x H x D) Packaging dimensions (W x H x D)	
Display type 7° IPS color display Resolution 1024 x 600 pixels Brightness 1000 Nits Contract ratio 800:1 Communication Interfaces Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1 Backend support OCPP stack • OCPP 1.6] Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Casing weight	Approx. 65 kg (without cable, without pole)
Resolution 1024 x 600 pixels Brightness 1000 Nits Contract ratio 800:1 Communication Interfaces Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2c GPRS, 4G LTE Cat M1 Backend support OCPP stack • OCPP 1.6j Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods Plug & Charge • RFID card • Autocharge • ISO 15.11.8 Plug & Charge • Back office • Third-party apps	User Interface	
Brightness 1000 Nits Contract ratio 800:1 Communication Interfaces Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1. Backend support OCPP stack • OCPP 1.6J Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Display type	7" IPS color display
Contract ratio Communication Interfaces Network connection and LAN External energy meter connection External energy meter connection Cellular Modem Cellular Modem Communication Communication External energy meter connection External energy meter connection External energy meter connection Cellular Modem Communication Com	Resolution	1024 x 600 pixels
Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1 Backend support OCPP stack • OCPP 1.6J Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Brightness	1000 Nits
Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1 OCPP stack • OCPP 1.6J Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Contract ratio	800:1
External energy meter connection Ethernet TCP/IP Cellular Modem 2G GPRS, 4G LTE Cat M1 Backend support OCPP stack • OCPP 1.6J Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Communication Interfaces	
Cellular Modem 2G GPRS, 4G LTE Cat M1 3ackend support OCPP stack • OCPP 1.6J Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Network connection and LAN	
Backend support OCPP stack • OCPP 1.6] Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	External energy meter connection	Ethernet TCP/IP
OCPP stack • OCPP 1.6] • (Locally) over Ethernet • Over-the-air Authentication methods Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Cellular Modem	2G GPRS, 4G LTE Cat M1
Firmware updates • (Locally) over Ethernet • Over-the-air Authentication methods • Plug & Charge • RFID card • Autocharge • ISO 15118 Plug & Charge • Back office • Third-party apps	Backend support	
Over-the-air Authentication methods Plug & Charge RFID card Autocharge ISO 15118 Plug & Charge Back office Third-party apps	OCPP stack	• OCPP 1.6J
 Plug & Charge RFID card Autocharge ISO 15118 Plug & Charge Back office Third-party apps 	Firmware updates	
 RFID card Autocharge ISO 15118 Plug & Charge Back office Third-party apps 	Authentication methods	
Charging cable	Authentication methods	RFID cardAutochargeISO 15118 Plug & ChargeBack office
	Charging cable	

Charging cable

Cable length	5 m
CCS2 connector	Yes
Cable holder	Included - provided with charging station
Connector holder	Yes, mounted on charging station
Cable management system	Yes, included in wall kit and pole kit

Alfen N.V

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Mounting accesories

DC wall kit	905023101Includes:4 pole AC main switchCharge cable management system
DC pole kit	905023201 Includes: • 4 pole AC main switch

• Charge cable management system

Standard and Selectable Settings

Network communication options *	• 2G: GPRS
	• 4G: LTE-M
	• UTP/LAN
	 Autodetect
	Configurable, to be decided by custome

The settings marked with a * may result in additional costs when purchasing your charging station. The default settings are always mentioned first. For more information about the options, please contact your sales representative.