

Eve 2017™



General

Model name	Article no.
2 x type 2 socket, 1-phase, max. 1x32A input current, RCD type A, 6mA detection, Display	904461011
2 x type 2 socket, 1-phase, max. 2x32A input current, RCD type A, 6mA detection, Display	904461012
2 x type 2 socket, 3-phase, max. 1x32A input current, RCD type A, 6mA detection, Display	904461001
2 x type 2 socket, 3-phase, max. 2x32A input current, RCD type A, 6mA detection, Display	904461002

Options for configuration

Ex-factory settings	Options
Authorisation	Plug & Charge RFID *
Maximum available charging current per socket	16A 32A *
Smart charging options	Off Standard load balancing (between sockets) * Active load balancing (P1) * Smart charging network *
Own logo shown on colour display	Off (Alfen logo) On (your own logo) *
Supported languages	English Italian Norwegian Dutch Spanish Swedish German Portugese Finnish French
User availability if temporarily offline	Accepts all RFID cards Only valid cards registered in the database Not available
Action if vehicle plug is disconnected	Terminate transaction and unlock socket Charging put on hold until plug is reconnected
Optional back-office system	Standalone ICU Connect * Many others upon request *
Communication via *	Autodetect GPRS UTP/LAN

REMARK

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.

Input and power supply

Input: recommended minimum cable diameter
(assuming max. cable length of 50m)

1-phase 3,7kW charging, 16A selected per phase

904461011: 3 x 4 mm²

904461012: 3 x 4 mm² (per cable)

3-phase 11kW charging, 16A selected per phase

904461001: 5 x 4 mm²

904461002: 5 x 4 mm² (per cable)

1-phase 7.4kW charging, 32A selected per phase

904461011: 3 x 6 mm²

904461012: 3 x 6 mm² (per cable)

3-phase 22kW charging, 32A selected per phase

904461001: 5 x 6 mm²

904461002: 5 x 6 mm² (per cable)

Nominal input voltage (+/- 10%)	230V (904461011, 904461012) 400V (3 x 230V) (904461001, 904461002)
Nominal frequency	50 Hz
Connection terminals	Cable gland, range for cable thicknesses 17mm – 25,5mm Cable clamp range: max. 16 mm ² per wire
Grounding	TN system (PE wire), TT system (ground rod, resistance smaller than 100 Ohm)
Main switch	4-pole, 80A, 400V (904461001, 904461011, 904461012) 8-pole, 40A, 400V (904461002)

Output and connection to vehicle

Vehicle connection	2 x type 2 socket, in accordance with IEC62196-2
Output voltage (+/- 10%)	230V (904461011, 904461012) 400V (3x 230V) (904461001, 904461002)
Max. charging capacity	16A per phase 32A per phase (optional)
Max. output	7,4kW per socket (904461011, 904461012) 22kW per socket (904461001, 904461002)
Load balancing	Optional, Standard, Active or in Smart Charging Network

External protection devices

Short circuit protection	Single power supply, 1-phase: 1 x 40 A max 1P Double power supply, 1-phase: 2 x 40 A max 1P Single power supply, 3-phase: 1 x 40 A max 3P Double power supply, 3-phase: 2 x 40 A max 3P
--------------------------	--

If you selected no more than 16A (3.7kW or 11kW charging), 20A will suffice instead of 40A max

Protection and integrated components

Residual current protection	Type A 30mA, per socket Max. 6mA DC residual current detection
Energy meter	1x kWh-meter per socket, MID certified
Power switching relays	Additional safety relay in series
Overcurrent protection	Integrated in firmware; shutdown from: 105% after 1,000 seconds; 110% after 100 seconds; 120% after 10 seconds; 150% after 2 seconds

Charging and status indicators

Controller	Central unit for sockets and communication
Communication with vehicle	Mode 3 conform IEC61851-1
Status indication	Integrated in display
Display	7" TFT colour display Resolution: 800x480 pixels
Card reader	RFID (NFC) ISO/IEC 14443A/B, Mifare 13,56 MHz, DESFire
Internet / Networking capabilities	GPRS, Ethernet/ LAN (externally accessible)
Communication protocol	OCPP 1.5 (JSON) OCPP 1.6 (JSON)
Backend connection	ICU Connect (optional) or other backend system (upon request)
Communication with Smart Meter	DSMR 4.0 en higher via P1 port (RJ11/RJ12)

Standards and guidelines

Standards	IEC 61851-1 (2017), IEC 61851-22, Renault Z.E. Ready Guidelines
-----------	---

Conditions of use

Operating temperature	-25°C up to 40°C
Relative humidity	5% up to 95%
Protection class	I
Protection class (casing)	IP54
IK-protection (mechanical impact)	IK10
Stand-by consumption	Approx. 9 - 12W



Casing

Type	Wall-mounted
Mounting options	Wall mounting or mounting post (accessory)
Material (cover)	Fibre-reinforced polyester (Sheet Moulding Compound - SMC)
Colour (cover)	RAL 9016 (Traffic White)
Material (back)	Fibre-reinforced polyester (Sheet Moulding Compound - SMC)
Colour (back)	RAL 7043 (Traffic Grey B)
Locking	Anti-theft screws
Dimensions (H x W x D)	
Casing	590 x 338 x 230 mm
Packaging	740 x 350 x 250 mm
Weight	
Casing	Approx. 25 kg
Packaging	Approx. 31 kg

Accessoires

Mounting post	934459001
Dimensions (H x W x D)	1.430 x 180 x 80 mm
Material	Aluminium with powder coating
Colour	RAL 7043 (Traffic Grey)
Packaging (H x W x D)	1.460 x 360 x 280 mm
Weight	11 kg
Concrete pedestal	833829300-ICU
Dimensions (H x W x D)	570 x 350 x 220 mm
Weight	42 kg
Metalen pedestal	803828601-ICU
Dimensions (H x W x D)	598 x 204 x 300 mm
Weight	7,8 kg
Packaging (H x B x D)	50 x 295 x 620 mm
Additional RFID-kaart	203120010-ICU

Alfen B.V.

Hefbrugweg 28 | 1332 AP Almere | The Netherlands
PO-box 1042 | 1300 BA Almere | The Netherlands

REMARK

Every effort has been made to ensure that the information in this document is accurate. Alfen is not responsible for printing or clerical errors.