



DC180



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Specifications

GENERAL CHARACTERISTICS

Reference number	80180001 / 80180002
Dimension H x W x D (mm)	2070 mm x 580 mm x 805 mm
Casing material	Steel 2,2 mm
Standard colour	Body: Ral 9016 / Cover: Ral 9016
Steel treatment	Anti-corrosion (KTL) and powder coating
Weight (kg)	± 500 kg
Number of charging points	1 (80180002) or 2 (80180001)
Cable	CCS2

ELECTRICAL CHARACTERISTICS

AC input voltage	3 x 400VAC + N ± 10%
AC input current and power (line-side)	270A at 180 kW DC output power
AC input Frequency (fn)	50Hz
DC output power range	1 - 180 kW CCS or 2 - 90 kW
DC output voltage range	200 - 1000 Vdc
DC output current range	0 - 300A
DC output voltage stabilized accuracy	≤ ±0.5%
DC output current stabilized accuracy	≤ ±1%
Efficiency	> 95% @full charge
THDi (Total harmonic distortion)	< 5% (load 50% to 100%)
Power factor	> 0.99 (load 100%); > 0.98 (load 50% to 100%)
Mains type	TN-C, TN-S, TN-C-S or TT

Impulse voltage (Uimp)	4kV
Insulation voltage (Ui)	230V single-phase 500V three-phase
Integrated protection system	Fuse 315A gG + Each PSU MCB 80A Curve C & RCD 63A Type B
Conditional short-circuit	6000A IEC/EN 60898-1 10kA IEC/EN 60947-2
Allowable thermal stress in Short Circuit	16 000 A²s
Integrated surge protection	Included
Standby consumption (W)	≤ 84W
Connection to the mains	Phases, Lug terminals M10 Earth, Lug terminals M8
Tightening Torque	30 - 44 N.m for M10 22 - 36 N.m for M8
Type of load	Mode 4 charging terminal
Vehicle connection Mode 4 attache cable connector	Use of extension and adapter prohibited. 80180001 / 80180002: 6.5m straight 300A CCS2
AC meter	Not included
DC meter	Not included
Back office protocol	OCPP 1.6 Json
Positioning	GPS
Connectivity Ethernet	RJ45 connector

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	IK 10
Noise level	< 72 dB at 1m at 20° C, at full charging
Product	IEC 61851-1, IEC TS 61439-7 (AEVCS), IEC 61851-23, IEC 62477-1, IEC 61439-1
DC standard protocol (communications with the vehicle)	CCS2: IEC 61851-23 / DIN SPEC 70121
Installation	Interior or exterior, limited access zone, intended for use by ordinary persons (DBO), assembly in cabinet (wall mounted), Pollution Degree 3, TN-C, TN-S, TN-C-S or TT compatible earthing system. In the event of an IT earthing system, this can be changed locally by adding an isolating transformer.
Electrical safety	Class 1 IEC 61140
Eichrecht conform	No

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



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