



# DC120



[www.ecotap.nl](http://www.ecotap.nl)  
[info@ecotap.nl](mailto:info@ecotap.nl)

**Specifications**

## GENERAL CHARACTERISTICS

|                           |                                         |
|---------------------------|-----------------------------------------|
| Reference number          | 80120102 / 80120108                     |
| Dimension H x W x D (mm)  | 1736 mm x 825 mm x 419 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)               | 285 kg                                  |
| Number of charging points | 1                                       |
| Cable                     | CCS2                                    |

## ELECTRICAL CHARACTERISTICS

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| AC input voltage                       | 3 x 400VAC $\pm$ 10%                          |
| AC input current and power (line-side) | 180A at 120 kW DC output power                |
| AC input Frequency (fn)                | 50Hz                                          |
| DC output power range                  | 1 - 120 kW                                    |
| DC output voltage range                | 200 - 1000 Vdc                                |
| DC output current range                | 0 - 320A                                      |
| DC output voltage stabilized accuracy  | $\leq \pm 0.5\%$                              |
| DC output current stabilized accuracy  | $\leq \pm 1\%$                                |
| 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<br>500V three-phase                                                                          |
| Integrated protection system                      | Fuse 250A gG + Each PSU MCB 80A Curve C & RCD 63A Type B                                                       |
| Conditional short-circuit                         | 6000A IEC/EN 60898-1<br>10kA IEC/EN 60947-2                                                                    |
| Allowable thermal stress in Short Circuit         | 16 000 A²s                                                                                                     |
| Integrated surge protection                       | Included                                                                                                       |
| Standby consumption (W)                           | ≤ 62W                                                                                                          |
| Connection to the mains                           | Phases, Lug terminals M10<br>Earth, Lug terminals M8                                                           |
| Tightening Torque                                 | 30 - 44 N.m for M10<br>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.<br>80120102: 4m straight 250A CCS2<br>80120108: 8m straight 250A CCS2 |
| AC meter                                          | Not included                                                                                                   |
| DC meter                                          | Not included                                                                                                   |
| Back office protocol                              | OCPP 1.6 Jjson                                                                                                 |
| 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<br>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.<br>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                                  |



Ecotap B.V.  
Kruisbroeksestraat 23  
5281 RV Boxtel  
+31(0) 411 210 210  
[info@ecotap.nl](mailto:info@ecotap.nl)

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