**MASTER 480**

# TECHNICAL DATA

| Product information | |
|---|---|
| Charging type | AC + DC |
| Charging standard | Type 2 (AC) + CCS2 (DC) |
| AC rated input current and power | 788A, 546kVA with 3 x DC (160kW) and 3 x AC (22kW) |
| Input voltage range | 3 x 400V AC (+/- 10 %) |
| DC output power | max. 160kW per charging point, max. 3 charging points simultaneously |
| AC output power | max. 22kW per charging point, max. 3 charging points simultaneously |
| DC output voltage | 300 - 1000V |
| Number of operated EV (Electrical Vehicle) | max. 6 EV simultaneously |
| Power connection AC input | 3P + PEN |
| Power factor (full load) | 0.98 (Load > 50 %) |
| THDi | <= 5 % (Load > 50 %) |
| Power efficiency | 95.9 % (full load) |
| Power consumption in standby | < 10W per 20kW |
| Max. Short-circuit current | 3kA |
| Inrush current | Negligible, < 10 % of the rated current |
| Mobile communication | GSM / 2G / 3G / 4G |
| Connectivity | Mobile radio / Ethernet (RJ45) via SIM card of the CHARGE-V |
| Communication protocols | OCPP 1.6, connection of further interfaces e.g. OCPP 2.0 |
| Accessories | Internal load management system |
| Power upgrade | 40kW modules can be installed |
| Software upgrade | Over-The-Air (OTA) |
| Network type | TN-C |
| Number of charging points in the network | 3 x AC / 3 x DC charging points per Power Unit, max. 10 Power Units can be interconnected |



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| General features | |
|---|---|
| IP and IK classification | IP54, IK10<br>System must not be exposed to higher humidity for longer than 2 weeks without power to prevent damage to the electronics. |
| Enclosure type (material) | Powder-coated steel and aluminium housing |
| Mounting accessories | Concrete base |
| Operating temperature range | min. -20°C to max. +45°C |
| Efficiency | 95 % at full load |
| Ambient temperature range | min. -20°C to max. +60°C |
| Air humidity | 5 % to 90 % |
| Mounting | Freestanding housing |
| Environment | Indoor and outdoor installation |
| Dimensions (H x W x D) | 2.10m x 0.95m x 0.95m |
| Weight | ~ 750kg |
| SIM card slot Quantity | 2 slots |
| Load management | within the charging park |
| **Certification and standards** | |
| Charging system | IEC 61851-1 Ed. 3, IEC 61851-21-2 Ed. 1,<br>IEC 61851-23 Ed. 1, IEC 61851-24 |
| Communication with the EV | DIN SPEC 70121:2014 |



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