

V2G DC CHARGER

20KW


WALL MOUNTED OR STAND PEDESTAL

PRODUCT DATASHEET / MAY 2026


 **Reliable**

Product Reliability

99%

 **Cloud Enabled**

Monitoring & Assistance

24/7

 **Built To Last**

Service Life

10Yr

KEY FEATURES

- ↳ Single tethered connector charging 20kW
- ↳ Supports dynamic load balancing and static load management
- ↳ Seamless integration with OCPP 1.6J / 2.0 / 2.0.1 protocol
- ↳ Integrated PME fault detection
- ↳ Three-phase connection
- ↳ App and RFID operated charging
- ↳ 3-year warranty with an optional 2-year extension
- ↳ Fully compliant with Smart Charge Points regulations for electric vehicles
- ↳ Approved for OZEV grant eligibility


S.A.F.E.

CB


V2G DC CHARGER

⌘ 20kW

PRODUCT CODE

TP-EVPD-020KS-V2G

| ⋮ ELECTRICAL INPUT | |
|-------------------------------------|---|
| Supply System | 3P+N+PE, TN/TT |
| Supply Voltage | 400 V AC (±15%) |
| Supply Frequency | 50/60 ±1 Hz |
| Rated Input Current | 36 A |
| Power Factor | ≥0.98 at 50 - 100% output power |
| THD | <5% at 50 - 100% full load |
| Charging Efficiency | ≥94% at nominal output power |
| ⋮ ELECTRICAL OUTPUT | |
| Output Voltage Range | 150-1000 V DC |
| Maximum Current | 73.3 A |
| Maximum Power | 22 kW |
| Connector Type | CCS2 |
| Number of Connectors / Outputs | 1 |
| Cable Length | 5 m, others optional |
| ⋮ BIDIRECTIONAL OPERATION | |
| Discharge Input Voltage Range | 300-1000 V DC |
| AC Output Voltage | 400 V AC (±15%) |
| AC Output Current | 45 A |
| Rated Discharge Efficiency | ≥94% at nominal output power |
| ⋮ CONNECTIVITY AND COMMUNICATION | |
| Network Connectivity | Ethernet (RJ45) / Wi-Fi / 4G |
| Backend Protocol | OCPP 1.6J / 2.0 / 2.0.1 |
| ⋮ USER INTERFACE AND ACCESS CONTROL | |
| Display / HMI | 7" LCD Touch Screen |
| LED Status Indication | LED status indication |
| RFID | RFID: ISO/IEC 14443 A/B; MIFARE, 13.56 MHz |
| Authentication And Payment | App, QR Code, MAC Authentication, Card payment (optional) |
| Metering | MID meter, Class 1, CE-marked |
| ⋮ ENVIRONMENTAL CONDITIONS | |
| Operating Temperature | -25°C to 55°C |
| Storage Temperature | -30°C to 70°C |
| Altitude | ≤2000 m |
| Humidity | 5% to 95% non-condensing |
| Ingress And Impact Protection | IP54, IK10 (screen excluded) |
| Noise | <70 dB |

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| ☰ SAFETY AND PROTECTION | |
|----------------------------------|--|
| Integrated Protections | Emergency stop button / RCBO, 1P+N, curve C, 63 A, 30 mA, type A / RDC-DD, 6 mA DC leakage detection / Surge protection device (SPD), Type 2, fused / Anti-islanding protection / Overvoltage and undervoltage protection / Overcurrent protection / Overfrequency protection / Output short-circuit protection / Insulation monitoring / Temperature monitoring |
| Physical Security And Access | Key-lock access door |
| Special Environmental Protection | Galvanised steel, powder-coated, salt-spray resistant |
| ☰ MECHANICAL DATA | |
| Dimensions | 690 x 340.6 x 700 mm |
| Weight | 78 kg |
| Mounting | Wall Mounted / Stand pedestal |
| Cable Management | Cable support |
| Cooling System | Forced-air cooling |
| ☰ COMPLIANCE AND STANDARDS | |
| Charging Protocol Support | ISO 15118; DIN 70121 |
| Discharging Protocol Support | ISO 15118-20 |
| Regulatory Compliance | IEC 61851-1; IEC 61851-23; IEC 61851-21-2; EN 50549-1:2019/AC:2019; EN 50549-10:2022 |
| Certification | CE Marked (LVD, EMC, RoHS) |

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