

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
- ↳ 2-year warranty


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

Cont'd on page 2

V2G DC CHARGER

⌘ 20kW

PRODUCT CODE

TP-EVPD-020KS-V2G

☰ 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)

End of Table