







## THE SMARTEST WAY TO **CHARGE YOUR ELECTRIC VEHICLE**



## **DESCRIPTION**

Vehicle-to-Grid (V2G) technology plays a very important role in addressing the imbalance between periods of peak demand and peak supply on the electricity grid. V2G technology enables two-way power flow between the grid and the high-power, high-capacity EV batteries. That is, V2G allows the vehicle to store electricity during peak supply periods, and then discharge it back into the grid during peak demand periods, including other important ancillary services, like frequency regulation, peak shaving or power factor correction.

### **APPLICATION**

Wall Mounted

**CHARGE WITH SOLAR OR WHILE ENERGY IS CHEAPER DISCHARGE** TO POWER THE HOUSE OR THE GRID AND GET BENEFITS

# TECHNICAL DATA V2G 4.0

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400 VAC
-20 ±10%
50/60 Hz ± 5%
10,5 kVA
16 A

#### **CHARGING OUTPUT**

Output power	10 kW
Max output current	31 A 400 VDC
Output voltage	0 - 500 VDC
Efficiency	> 90% at nominal power
Power factor	> 0,9
THD	< 3%

#### **DISCHARGING OUTPUT**

Output power	10 kVA
Output voltage	400 VAC
Efficiency	93% (max)
Power factor	Pure sine, controlled by Grid codes

#### **HMI COMMUNICATIONS**

Communication protocol	1.6 JSON
Display	Alphanumeric
Language	English by default (others on demand)

#### **ELECTRICAL AND SAFETY SPECS**

Grid codes	G98/G99, VDE AR-N-4105
Plug type connector	JEVS G 105
Discharging protocol	CHAdeMO MMC & Nissan
Charging protocol	CHAdeMO (TEPCO)
Charging/ Discharging mode	Mode 4
Isolation system	Low frequency
Emergency stop button	Yes
DC Earth leakage protection	Yes
AC Earth leakage protection	Yes
Over-current protection	Yes
Short-circuit protection	Yes
Power converter technology	Active Rectifier IGBT

#### **CABINET SPECS**

Dimensions (W x D x H)	50 x 22 x 102 cm
Weight	55 kg
Protection level	IP54

#### **ENVIRONMENT CONDITIONS**

Temperature	0° to + 50°C
Humidity	5% to 95%
Sound noise	< 55 dB in all dir

#### **OPTIONS**

- 3G Professional Modem
- RFID Reader / Access Control
- Below 0° operation system
- Decoration

- Specific Language Option
- MCLINK
- MODBUS RTU









