PWR.160

The perfect balance between power, compact design and reliability

Application

The PWR.160 perfectly adapts to different scenarios in which EV charging time is more paramount to the end user, such as service stations and rest areas on expressways, charging areas at shopping centres, professional car fl eets and city bus fleets, among others.

Concept design

Designed to solve the main problems identified by users and operators in relation to fast-charging, the PWR.160 uses the latest modular power technology. Another key feature is its sophisticated, flexible, slim and robust outer design, making it ideal for any site, from the most elegant urban areas to industrial zones.

Product highlights

For the Operator / Owner

- Its modular power technology ensures it is highly reliable and reduces costs, as it can continue charging even if one of the power modules breaks down.
- It reduces energy consumption and operating costs thanks to constant high efficiency , as power modules can be shut down when the EV demands less charging power.
- The modular architecture of this charger means it can be scaled up from 80 to 160 kW to meet the increasing demands of batteries.
- Its unique connector protection concept, with a locking function (optional) and floating cable design, reduces the risk of breakage, resulting in higher uptime and lower operating costs.
- The lockable double door at the front facilitates maintenance and repairs access, and allows to be installed next to a wall.
- The system can be set as a Master in the Master-Satellite solution.
- Includes EMC class B device for use in the residential areas (optional).

For the User

- Its 8-inch anti-vandal colour touchscreen can be read in daylight, not only displaying clear charging instructions and the operational status of the charger, but also allowing users to select the language.
- The user experience is improved thanks to the built-in courtesy light, which makes it easier to find the charging station and helps users to read the operating instructions in dark areas.
- The height of the connectors and the screen are in compliance with international standards to help people with reduced mobility.
- Its built-in payment terminal (optional) offers a very easy and intuitive solution that will improve the user experience. It will not be necessary to be a member on any platform: simply wave the card and pay.
- The PWR.160 can split the available power between two vehicles (for example, 80 kW + 80 kW). This makes it possible to use the maximum power and adapt to new market demands, where vehicles are being equipped with larger and larger batteries.

PWR.160

General specifications

AC power supply	3P + N + PE
AC voltage	400 V AC +/- 10%
Maximum AC input current	280 A
Power supply capacity	172 kVA
Power factor	>0.99
Efficiency	95% at nominal power
Frequency	50/60 Hz
Electrical input protection	MCCB
Overload protection	MCB
Differential current protection	Type B RCD
Connections	Ethernet 10/100 Base TX
Interface protocol	OCPP 1.6J
Compliance	CE/Combo-2 (DIN 70121; ISO 15118); IEC 61851-1;IEC 68151-23; IEC 68151-21-2
	CHAdeMO compatible
Enclosure rating	IP54 / IK10
Structure material	Stainless steel
Operating temperature	-30ºC to +50ºC
Storage temperature	-40ºC to +60ºC
Operating humidity	5% to 95% non-condensing
RFID Reader	ISO/IEC 14443-1/2/3 MIFARE Classic
HMI screen	8" anti-vandal colour touchscreen

Power limit control	By software
Cable length	4 metres (CCS, CHAdeMO)
Light beacon	RGB colour indicator
Dimensions (D x W x H)	550 x 1140 x 1910 mm (without cable)
Weight	450 kg
Cooling system	Air cooling fans
Noise level	<65 dB
AC meter	Compliant with EN 50470-1 and EN50470-3 (MID European standards) or IEC 62052-11
Wireless Communication EU	4G LTE/WiFi Hotspot/GPRA/GSM

Optional devices	
Wireless Communication	LATAM/APAC /4G LTE/GPRS/GSM
Overload protection	Four-pole transient overvoltage protector IEC 61643-1 (class II)
Cable length	5.5 metres (all cables)
Anti-vandal connector protection	CHAdeMO, CCS (mechanical connector locking)
Network hub	Switch TCP ethernet 8 ports
RFID extension	Legic Advant/Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Contactless payment	Built-in credit card payment terminal
EMC Class B	IEC 61000 EMC Filter

Model specifications

PWR.160	CCS CCS
Maximum output power	CCS: 160 kW CCS: 160 kW
Voltage range	CCS: 150-920 V CCS: 150-920 V
Maximum output current	CCS: 375 A CCS: 375 A
Connection