

JuicePump

Datasheet



General Features

JuicePump is a multi-standard AC and DC charging station providing up to 50 kW power. It is equipped with full smart grid integration, adaptive power and mobile connectivity that allows remote control and maintenance. Compatible with all the main AC and DC charging standards of the EVs on the market, JuicePump is able to charge up to two vehicles at the same time. It is a perfect solution for commercial buildings, roadsides and anywhere fast charging is needed inside or outside the city. The DC outputs allow for one DC charging session at a time, while the AC charging can take place in parallel with DC charging.

WHY JUICEPUMP?

RELIABLE

JuicePump is equipped with locking system that prevents unauthorized disconnection of the plugs during charging

Fully weatherproof enclosure

Take advantage of the remotely technical assistance service available 7 days a week

Able to charge up to two vehicles in parallel (one AC plus one DC)

COST-EFFECTIVE

Able to be integrated into Smart Charging Logics thanks to specific algorithm and advanced smart metering functions (real-time modulation of charging process with a power of 60 kW)

CONTROLLABLE AND EASY TO USE

Access to charging procedure via mobile APP and RFID card, so with identification and charging authorization

8" touchscreen display to support the customer in the charging sessions and to provide charging status (kWh and timing)

Suitable to be integrated in Enel X Business Software platforms to get all the charging session you need and to best manage them

Data acquisition and trasmission for each charging process and all diagnostic alarms

Multilingual interface customisable for different languages (English, Spanish, Italian, German, Hungarian, Russian, Norwegian and Romanian)

Real time communication with remote Control Centre (EMM Platform) via GPRS/UMTS/4G

Users instructions

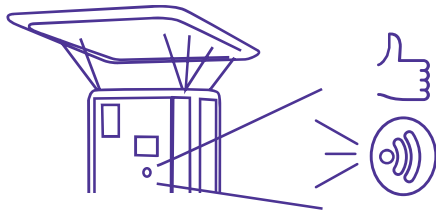
The access to charging process is performed automatically on behalf of the customer, according to the following steps:



1



Identify yourself before gaining access to the service with an App on smartphone; or by means of an RFID (Wireless) Smart Card



2



Await a feedback from the charging station



3



Connect the cable and the recharge session starts automatically



4



Access again through the App/RFID to successfully close the operation and unplug the cable

Intended use

PUBLIC

Charging station installed in a public area or in a private area with public access, open to all type of customers.

PRIVATE

Charging station installed in a private area, available to a limited group of users, for private charging only.

POWER SUPPLY:

Input AC voltage: 400 VAC \pm 10%, 50 Hz or 60 Hz

Input AC connection: 3 P + N + PE

		DC output		AC output	
		CHAdEMO	CCS2	Connector type 2	Socket outlet type 2
Name	Code	120 A - 500 V	120 A - 500 V	43 kW	22 kW
Enel X JuicePUMP 50 Trio 43	1.00JUDA0503ECEU-SLTCA4-000 Trio 43	●	●	●	
Enel X JuicePUMP 50 Trio S22	1.00JUDA0503ECEU-SMSCA4-000	●	●		●
Enel X JuicePUMP 50 Duo	1.00JUDD0503ECEU-SYTCA4-000	●	●		
Enel X JuicePUMP 50 Duo CHAdEMO+43	1.00JUDA0503ECEU-SETCA4-000	●		●	
Enel X JuicePUMP 50 Duo CHAdEMO + S22	1.00JUDA0503ECEU-SGSCA4-000	●			●
Enel X JuicePUMP 50 Duo CCS2 + 43	1.00JUDA0503ECEU-SHTCA4-000		●	●	
Enel X JuicePUMP 50 Duo CCS2 + S22	1.00JUDA0503ECEU-SISCA4-000		●		●

ELECTRICAL CHARACTERISTICS TRIO

- > DC Outputs: CCS2 50 kW and CHAdEMO 50 kW
- > AC outputs: Type 2 43 kW (connector) or Type 2 22 kW (socket)
- > Voltage and current output:
DC: Max 500 V / 120 A
AC: Max 400 V / 63 A
- > Cable length: 3 m
- > Maximum output power: 95 kW

ELECTRICAL CHARACTERISTICS DUO

- > DC version(no AC output): CCS2 50 kW and CHAdEMO 50 kW max
- > Version CCS2+43/22 kW CCS2 50 kW and Type 2 43 kW (connector) or 22 kW (socket)
- > Version CHAdEMO+43/22 kW CHAdEMO 50 kW and type 2 43 kW (connector) or 22 kW (socket)
- > Voltage and current output:
DC: Max 500 V / 120 A
AC: Max 400 V / 32 A
- > Cable length: 3 m
- > Maximum output power: 95 kW

WEIGHT & DIMENSIONS

- Weight > 510 kg
- Dimensions > 0.5x1x1.8 m (W x D x H)

TECHNICAL CHARACTERISTICS

- > DC line: RCD - Type B 30 mA
MCB - Curve B 100A
- > AC line: RCD - Type B 30 mA
MCB - Curve C 63A
- > 2 MID Smart Meters
- > TLC Modem (GSM/GPRS/UMTS/4G) with SIM

POWER & EFFICIENCY

- > Efficiency: 95%
- > Power factor: > 0.97
- > Idle power dissipation: < 50 W

ENVIRONMENTAL SETTINGS

- > Operating temperature: -25° C to +50° C
- > Protection: IP 55
- > Impact protection: IK 10
- > Noise while operating: < 65 dB A
- > Relative humidity: 5% to 95%
- > Atmospheric pressure: from 860 hPa to 1.060 Pa

STANDARDS & CERTIFICATIONS

- > CHAdeMO 1.0.1 certified
- > DIN 70121
- > IEC 61851-1
- > IEC 61851-23
- > IEC 61851-21-2
- > IEC 62196-1, IEC 62196-2 and IEC 62196-3
- > IEC 60068

COMMUNICATION TO BACKEND

- > Enel proprietary protocol
- > OCPP 1.6 SOAP and JSON

