



Meazon's EV charger can be used at home or business. Since charging of an EV is a high load for a typical building's panel, auto-adjustment is required to avoid power overload. Parallel use of Meazon's DinRail energy meter, allows for real-time monitoring of total panel energy consumption and protection against overloads, by automatically reducing EV charging power.

<b>Architecture</b>	ZigBee Mesh Network NB-IoT, LTE CAT M1
<b>Frequency band</b>	ZigBee: 2.4 GHz NB: 20, 8, 3 M1: 13, 12, 5, 4, 2
<b>System</b>	22KW – 3 Phase 7,4kW – 1 Phase
<b>Minimum Data reporting interval</b>	1 second (default 1 minute)
<b>Data storage &amp; Start record in the charger</b>	Yes
<b>Security mechanism</b>	AES encryption 128 bits in Zigbee, VPN in NB-IoT

### Meazon's EV Charger

Wireless three-phase electric car charger. Suitable for single-phase and three-phase electric vehicles.

#### Description

Dynamic charging up to 22kW per phase, build-in protection for DC and AC.

Provides the options to select charging interval based on energy costs, Eco mode to use photovoltaic energy and charging start time to benefit from night costs.

Real time communication with Meazon's Dinrail meter installed in the panel to avoid overloading and installation problems. The communication between the two devices (meter and charger) is realized both locally and online (internet).

Management app on mobile (MyElectrifier available in Google Play and Apple Store).

Different usage profiles (option for "plug and charge", or "sign-in before charging" via the app) and user profile support.

Option for programming departure time for the use of cheap energy.

Pending



<b>Operating voltage / Frequency</b>	100 to 240 Vac / 45 to 65 Hz
<b>Behavior in power loss or surges</b>	Automatic reset after power loss, surge protection

<b>Electric parameters</b>	Irms, Vrms, Active Power & Energy, Reactive Power & Energy, Harmonics (optional)
<b>Measured parameters band</b>	Voltage: 0 to 250 Vac ph-to-ph, 45 to 65 Hz, provided at least one phase voltage >85 Volts
<b>Measurements accuracy</b>	<0,5% measurement error
<b>Build-in Data log record</b>	3000 records

<b>Additional characteristics</b>	Build-in Color Screen (4.3") Build-in RFID reader for ViP profile Emergency Stop Button Security control
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<b>Protection</b>	Build-in DC and AC leakage control Lightning protection (optional)
<b>Dimensions</b>	275,5 x 376 x 101 ( WxHxD ) mm
<b>Operating environment</b>	Temperature: -20° C to 50° C Relative humidity: 10% to 90% (RH), non-condensing