# EVC-HOME11

# Home Charging Station

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# EVC-HOME11

## User-Friendly EV Home Charging Station

Introducing the EVC-HOME11, a home charging station for electric vehicles that operates in AC Mode 3 (case C). It comes with a 5m cable and a type 2 plug, allowing for a direct connection to your electric car.

Designed as a wallbox solution for EV charging, adhering to the IEC 61851-1 standard, it's installation is straightforward, requiring a connection to a 3- or 1-phase system and mounting on a wall. Once set up, it is incredibly user-friendly, as no additional setup is necessary—simply plug it in and start charging (plug&play). It offers a maximum charging power of 11 kW (3x16A) or 3.7 kW (1x16A) when using the provided cable and Type 2 plug. Additionally, the EVC-HOME11 offers an optional RFID feature for enhanced security.

## Advanced Safety

### in Sleek Design

The EVC-HOME11 is not only user-friendly but also incorporates advanced safety features in a modern and stylish design.

Your personal safety is our top priority, therefore this charging station is equipped with full residual current protection - a voltage independent **RCCB EV type** (A type + 6mA DC leakage current detection), which can also act as a switch to disconnect the charging station from the grid.

**EFI-P4 EV** is RCCB, which is the most reliable protection device against residual current, therefore electric shock. They are especially designed, tested and certified according international standards for residual current protection devices: .

## Simple to Set-Up.

### Easy to Mount.

The EVC-HOME11 offers a hassle-free setup process. Using mechanical rotary selectors, you can easily customize settings like max charge current, DLB limit / mains fuses, and type of supported energy meter. No applications or complex software needed for setup. Experience convenience in a compact design.

## General characteristics

| | |
|---|---|
| Standards / Directives | CE, IEC 61851-1 |
| Installation method | Wall (Surface) mounted |
| Recommended installation height | 1,2 m (floor to bottom of charger) |
| Installation environment | Indoor / Outdoor |
| Other installation restrictions | Do not expose to sunlight or other heat sources |
| Location type | Non-restricted Access |
| Power supply | 1~/N/PE; 230 V; 16A or 3~/N/PE 230/400 V; 16A |
| Earthing system | TT, TN and IT systems |
| Frequency | 50 Hz |
| Charging type | Mode 3 |
| Charging method | AC Charging |
| Current output range | Maximum 16A (adjustable by installer), possible levels 6, 7, 8, 9, 10, 12, 14, 16 A |
| Load balancing | Fixed or dynamic ( with compatible energy counter via RS485 connection) |
| Rated output | 11kW (3ph) / 3,7kW (1ph) |
| Icc | <10kA |
| Overvoltage category | III |
| Standard cable length (fixed cable) | 4,9 m with Type 2 plug (handle), 5x2,5mm² |
| Enclosure rating | IP 54 |
| Mechanical impact resistance | IK08 |
| Material | Powder coated stainless stele (body) and tempered glass (cover) |
| Protection class | I |
| Operating temperature | -25 °C - +50 °C |
| Storage temperature | -30 °C - +60 °C |
| Weight | 10 kg |
| Ventilation | Not supported |
| Residual current protection | Integrated modular RCCB EV (Type A + DC 6 mA) |
| Overcurrent and short-circuit protection | Not included, must be provided in upstream board (16A B or C char. MCB) |
| Cable inlet | From bellow, M25 sealing glands included |

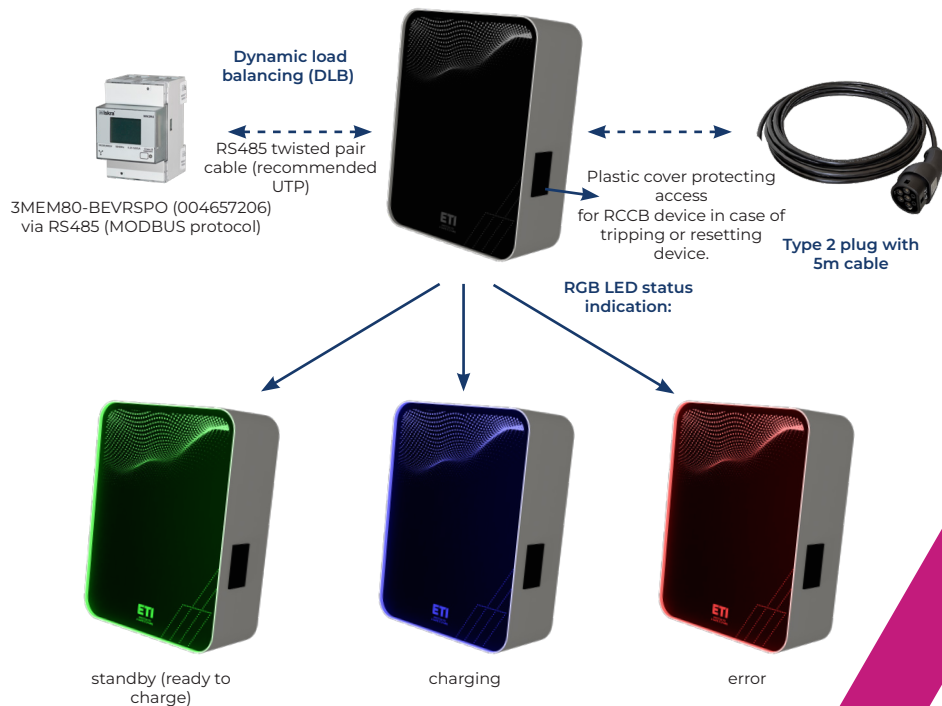No adaptors, conversion cables or cord extension sets are allowed to be used

Do not expose to sun or other sources of heat

## Features and Options

- ⚡ Indoor / outdoor wall (surface) mounted
- ⚡ Full residual current protection: RCCB EV type (A type + 6mA DC leakage current detection)
- ⚡ RGB LED status indication
- ⚡ IP54 rating
- ⚡ Type 2 plug with cable 5m included
- ⚡ Wall mounting capability
- ⚡ Easy setup with mechanical rotary selectors, no apps needed
- ⚡ Maximum charging curent 16A (adjustable by installer), possible levels: 6, 7, 8, 9, 10, 12, 14, 16A
- ⚡ DLB (Dynamic load balancing) or FLB (Fixed load balancing)
- ⚡ DLB compatible counter: 3MEM80-BEVRSPO (004657206)
- ⚡ Optional (on demand)l:
  - RFID feature
  - WIFI module (for setting dailing, weekly or yearly schedule of charging).
  - Modular SPD device (T2) for better surge immunity (In=20kA).
  - MCB device (if not covered properly by upstream network).
  - 22kW on demand (5x6mm^2 charging cable with type 2 plug)
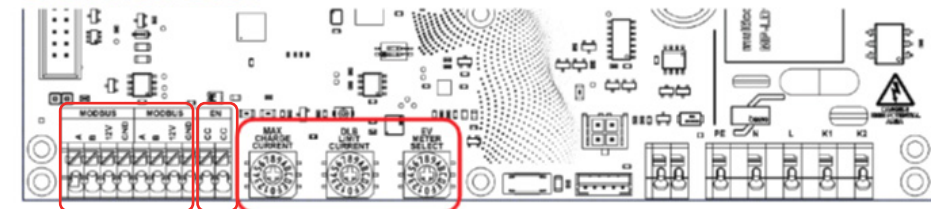
### HOME AC WALLBOX MODE 3 CASE C CHARGING

| Type | Power [kw] | Weight [kg] |
|---|---|---|
| EVC-HOME11 | max. 11kW | 10 |

22kW on demand

**Dynamic load balancing (DLB)**

RS485 twisted pair cable (recommended UTP)

3MEM80-BEVRSPO (004657206) via RS485 (MODBUS protocol)

Plastic cover protecting access for RCCB device in case of tripping or resetting device.

**Type 2 plug with 5m cable**

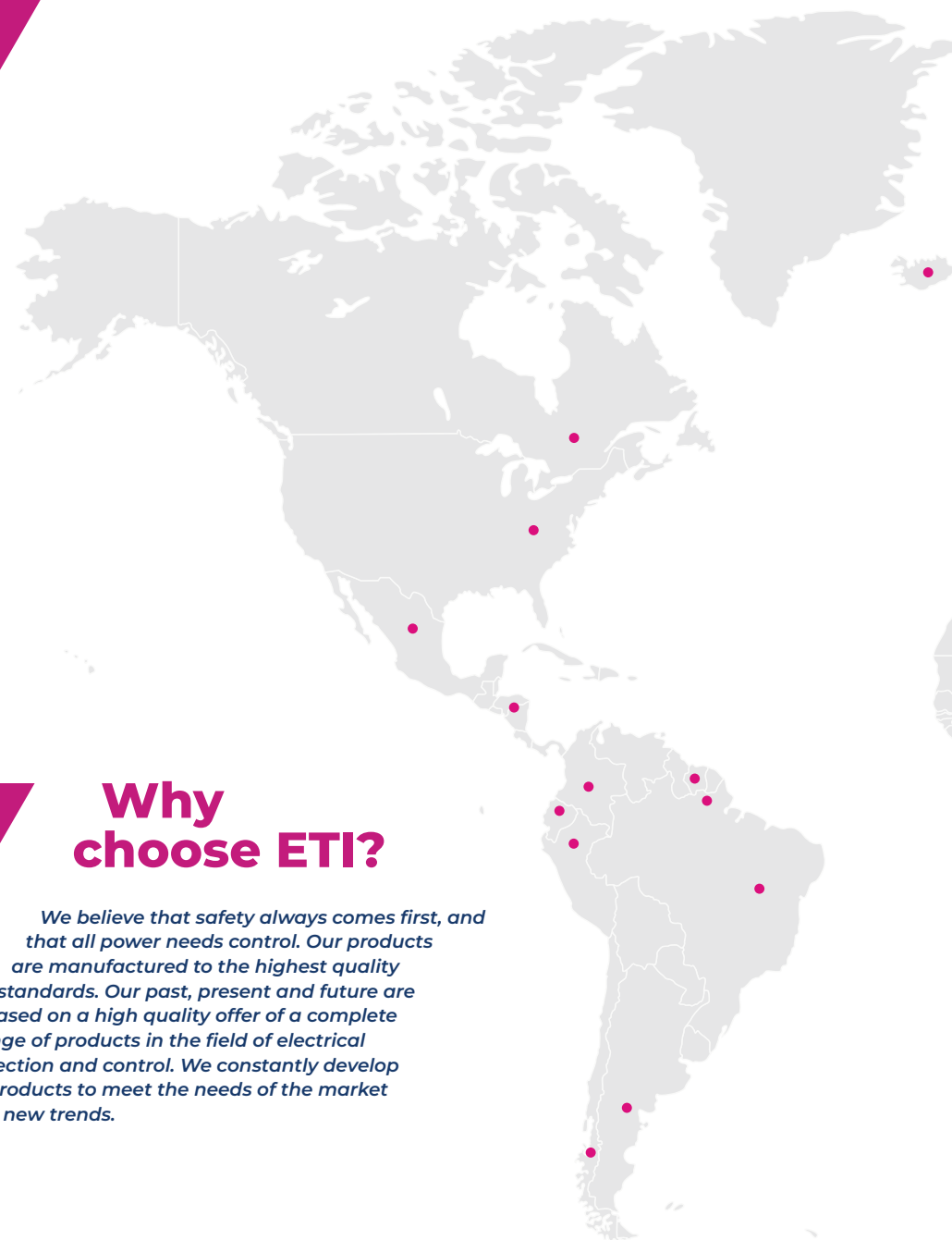**RGB LED status indication:**

standby (ready to charge)

charging

error

## Effortless Setup and Mounting



**OPERATION SETUP**



RS485 port for remote control or DLB charging with compatible energy counter.

Enable input for external control

Max charge current rotary selector
0.) 6A - 1.) 7A - 2.) 8A - 3.) 9A - 4.) 10A - 5.) 12A - 6.) 14A - 7.) 16A

DLB limit / mains fuses selection rotary selector
0.) 10A - 1.) 16A - 2.) 20A - 3.) 25A - 4.) 32A - 5.) 35A - 6.) 40A - 7.) 50A - 8.) 63A - 9.) 80A

Mains energy meter selection + extra settings rotary selector
0.) DLB DISABLED, use standard charge preset to »MAX CHARGE CURRENT«
1.) DLB ENABLED, use 3MEM65-BRS (004657203) (Set via Screen to address 33 & 9600bps)
2.) DLB ENABLED, use 3MEM80-BEVRSPO (004657206) (Set via screen to address 33 & 9600bps & 1stop bit) -> more recommended energy counter
3.) DLB ENABLED, Eastron SDM630 meter (Set via screen to address 1 & 9600bps))
4.) Reserved up to positionon 13 for future use (possible upgrades for future possibilities).

# ETI

## Why choose ETI?

*We believe that safety always comes first, and that all power needs control. Our products are manufactured to the highest quality standards. Our past, present and future are based on a high quality offer of a complete range of products in the field of electrical protection and control. We constantly develop new products to meet the needs of the market and set new trends.*

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