

EVC- HOME

Home Charging Station

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EVC-HOME11 and EVC-HOME22

User-Friendly EV Home Charging Station

Introducing the EVC-HOME, 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, certified according to the IEC 61851-1 standard, its installation is straightforward, requiring a connection to a 3- or 1-phase system and mounting on a wall or a stand. 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 or 22 kW when using the provided cable and Type 2 plug. Additionally, the EVC-HOME offers an optional RFID feature for enhanced security.

Advanced Safety in Sleek Design

The EVC-HOME 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-HOME 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 at 11kW 1~/N/PE; 230V; 32A or 3~/N/PE 230/400V; 32A at 22kW
Earthing system	TT, TN and IT systems
Frequency	50 Hz
Charging type	Mode 3
Charging method	AC Charging
Current output range	Maximum 16A (11kW) (adjustable by installer), possible levels 6, 7, 8, 9, 10, 12, 14, 16 A Maximum 32A (22kW) 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32
Load balancing	Fixed or dynamic (with compatible energy counter via RS485 connection)
Rated output	11kW (3ph) / 3,7kW (1ph) 22kW (3ph)/ 7,4kW (1ph)
Icc	<10kA
Overvoltage category	III
Standard cable length (fixed cable)	~ 5m with Type 2 plug (handle), 5x2,5mm ² (11kW) or 5x6mm ² (22kW)
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 for 11kW or 32A for 22kW 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 ~5m cable included
- ⚡ Wall or stand mounting
- ⚡ Easy setup with mechanical rotary selectors, no apps needed
- ⚡ Maximum charging current 16A or 32A (adjustable by installer), possible levels: 6, 7, 8, 9, 10, 12, 14, 16A at 11 kW
- ⚡ 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32 at 22 kW
- ⚡ DLB (Dynamic load balancing) or FLB (Fixed load balancing)
- ⚡ DLB compatible counter: 3MEM80-BEVRSP0-MID (004657210)
- ⚡ Optional:
 - RFID feature (already integrated or as addon kit)
 - Stand (pillar) for mounting (back to back mounting) up to 2 EVC-HOME chargers
 - Extra space for various addons (SPD, MCB, WIFI time relay SHT-13)

HOME AC WALLBOX MODE 3 CASE C CHARGING

Type	Code	Description	Weight [kg]	Packaging
EVC-HOME11	001800100	Home EV charger 11kW with fixed cable (~5m) and Type 2 plug	10	1
*EVC-HOME11-RFID	001800110	Semi public EV charger 11kW, integrated RFID module with fixed cable (~5m) and Type 2 plug	10	1
EVC-HOME22	001800120	Home EV charger 22kW with fixed cable (~5m) and Type 2 plug	11	1
*EVC-HOME22-RFID	001800130	Semi public EV charger 22kW, integrated RFID module with fixed cable (~5m) and Type 2 plug	11	1
*EVC-RFID kit	001800200	separate RFID kit addon (no card included)	0,03	1
EVC-RFID card	001800201	13,56MHz RFID card	0,01	1
EVC-STAND	001800210	Stand (pillar) for mounting up to 2 (back to back) EVC-HOME11 chargers	17	1

*It's possible to set up to 20 different identity RFID cards

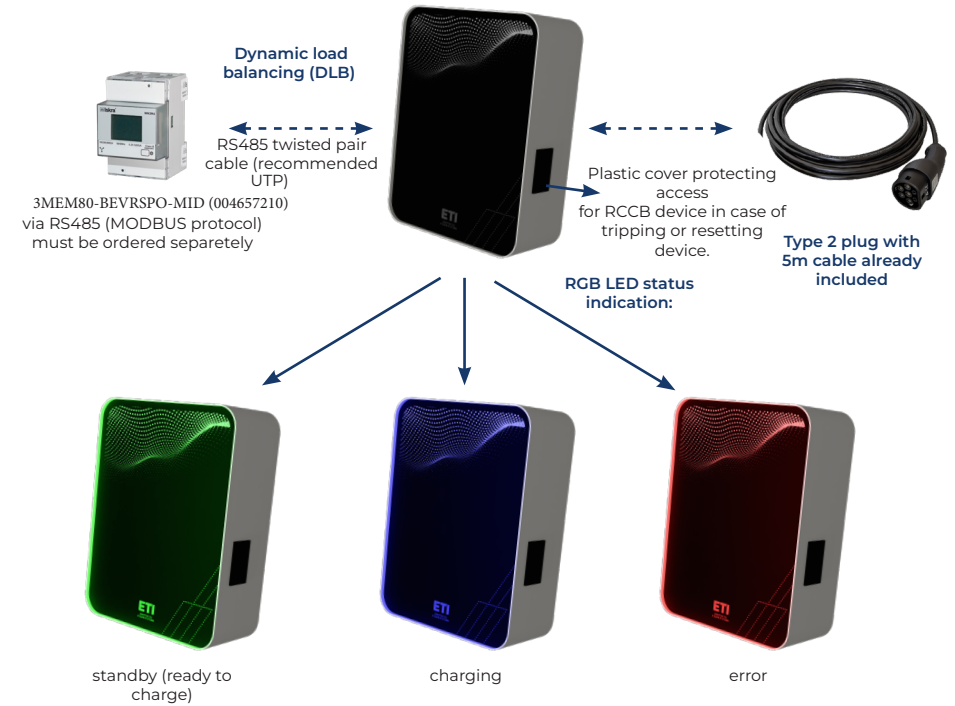
EVC-stand with EVC-HOME11 charger



EVC-RFID card



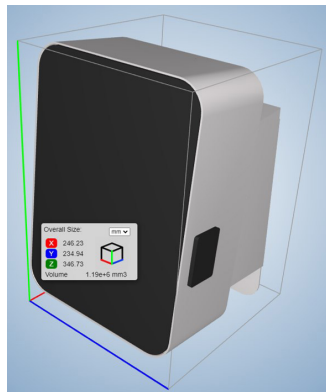
EVC-RFID kit



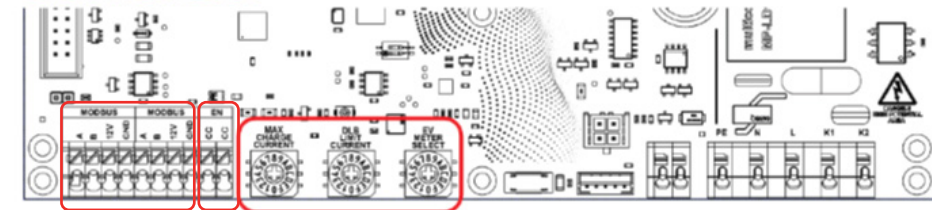
Effortless Setup and Mounting



Dimensions
246 x 235 x 347 mm



OPERATION SETUP



Enable input for external control

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

Max charge current rotary selector
0.) 6A - 1.) 7A - 2.) 8A - 3.) 9A - 4.) 10A - 5.) 12A - 6.) 14A - 7.) 16A at 11 kW
-8.) 18A -9.) 20A -10."A") 22A -11."B") 24A -12."C") 26A, -13"D") 28A, -14"E") 30A, -15"F") 32A at 22 kW

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 ETI 3MEM65-BRS energy counter (Set via Screen to address 33 & 9600bps)
- 2.) DLB ENABLED, use 3MEM80-BEVRPO meter (Set via screen to address 33 & 9600bps & 1stop bit)
- 3.) DLB ENABLED, Easton SDM630 meter (Set via screen to address 1 & 9600bps)
- 4.) Reserved up to position 12 "C" for future use.
12. "C" Set maximum LED illumination value. For every charging station start when selector is set to "C" the maximum brightness value toggles between 100% (default) and 25% reduced mode. After power cycle the last value is saved in EEPROM for normal operation. After changing the illumination value set the rotary selector back to the desired position 0..3 and power cycle the charging station.
14. "E" Erase all RFID keys & disable lock/unlock with keys functionality. Set the selector before powering up then after boot wait for all setup displays blinks to finish and a steady green light is displayed. Set the rotary selector back to setting 0..2 and power cycle the charging station.
15. "F" Learn new RFID keys and enable lock/unlock with keys functionality. Set the selector before powering up and after boot wait for all setup display blinks to finish and the charging station indicator is lit in dim white light. Present compatible 13.56Mhz Milfare keys or a mobile phone with Key card emulation support. A newly recognized card is signaled with two bright white blinks. When finished learning new RFID cards set the selector back to setting 0..2 and power cycle the charging station.

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