

eHome EV Charge Stations



Circontrol eHome



Application

Designed to be installed (both indoor and outdoor) at private houses, communal blocks, companies and other places where user authentication is not a requirement.

Concept Design

Taking into account that many times a domestic charger is considered an appliance, a nice design and a small size are key attributes that are to be contemplated.

Furthermore Circontrol's eHome series offers other attributes such as low-cost, robustness, and user-friendly operation.



Product Highlights

Compatible with BeOn sensor (accessory), when combined with eHome is able to dynamically adjust the electric vehicle's consumption according to the available power of the installation, avoiding the risk of blackout and/or having to upgrade the existing installation (resulting on a lower initial investment).

The frontal LED bar not only informs the user about the charger status (e.g. operative, faulty...) but also EV charging status; charging (dynamic blue light) vs charged (static blue light).

The charger's housing is made of ABS plastic which is both robust and UV resistant, providing protection against both mechanical stress and severe environmental conditions.

Its well-thought-out shape allows the cable to be rolled up and keep it tidy and unbroken while the charger is not being used.

This series also includes a selector switch that facilitates the setup of the charger maximum output current (reducing installation time and cost).

Remote charging activation is also offered by means of an ON/OFF external input signal (e.g. timer).



SENSOR
OPTION



PLUG N'
CHARGE



DISPLAY



REMOTE
CHARGING

16 amp and 32 amp versions available;

- 16 amp gives around 20-25km of added range per hour*
- 32 amp gives around 40-50km of added range per hour*



*Actual current limited by size of EV's onboard charger

Model Specifications

Model	EVC-EHOME-16T1	EVC-EHOME-32T1	EVC-EHOME-16T2	EVC-EHOME-32T2
AC power supply	1P + N + PE	1P + N + PE	1P + N + PE	1P + N + PE
AC voltage	230 VAC +/-10%	230 VAC +/-10%	230 VAC +/-10%	230 VAC +/-10%
Maximum current	16A	32A	16A	32A
Maximum power	3.7kW	7.4kW	3.7kW	7.4kW
Connector	Type 1 Cable	Type 1 Cable	Type 2 Cable	Type 2 Cable

Below is a table outlining the most common EVs currently in New Zealand and the appropriate charge stations for each of these vehicles.

EV Brand and Appropriate Charge Station

Car	On Board Charger	Plug Type	Charge Station
Hyundai Kona	7.2kW single phase; Type 2		EVC-EHOME-xxT2
Hyundai Ioniq	6.6kW single phase; Type 2		EVC-EHOME-xxT2
Kia Niro	3.5kW single phase; Type 2		EVC-EHOME-xxT2
Nissan Leaf	3.5kW single phase; Type 1		EVC-EHOME-xxT1
Nissan Leaf 2018+	6.6kW single phase; Type 1		EVC-EHOME-xxT1
Mitsubishi Outlander pre 2017	3.5kW single phase; Type 1		EVC-EHOME-xxT1
Mitsubishi Outlander 2017 +	6.6kW single phase; Type 1		EVC-EHOME-xxT1
BMW I3	11kW 3 phase		EVC-WB-PULSAR-T2X3-WH

NOTE: xx denotes amps, 16 = 16amp, 32 = 32amp

General Specifications

Enclosure Rating	IP54 / IK10
Enclosure Material	ABS-PCV0
Operating Temperature	-5°C to +45°C
Ambient Temperature Storage	-40°C to +60°C
Operating Humidity	5% to 95% Non-condensing
Light Beacon	RGB colour indicator
Current Setup	Onboard dipswitch
Dimensions (D x W x H)	115 x 180 x 315mm
Weight	4kg
Cable Length	5m
External Input	Remote charging activation



10-12km

Range added per hour of charging at 8amps (1.8kW Single Phase)



45-55km

Range added per hour of charging at 32amps (7.4kW Single Phase)

Optional Accessories

Power limit control

BeON sensor

20 amp current sensor p/n: EVC-BEON-CT20

50 amp current sensor p/n: EVC-BEON-CT50



C32A Type B RCBO

Type B RCBO offer fault protection (against indirect contact of live parts), additional protection (in case of direct contact of live parts $I_{\Delta n} \leq 30\text{mA}$) and fire protection (for locations exposed to fire hazard). Tested to meet requirements of IEC/EN 61008-1, IEC/EN 62423 & VDE 0664-400 B+.

Mode of operation, pure AC & pulsating DC residual current sensitivity, A voltage independent, B Smooth DC current sensitivity.

Minimum operating voltage:

50V

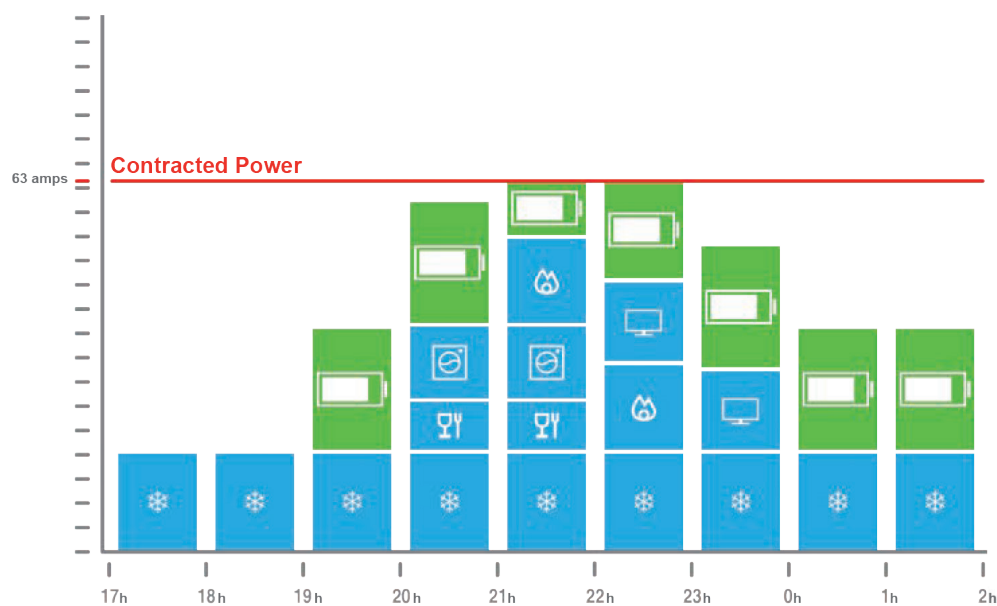
p/n: EVC-002174538



eHome BeON Compatible - Intelligent Sensor

eHome BeON takes a new step in domestic EV charging allowing you to charge your vehicle while using your appliances.

This intelligent sensor, easily added to the usual protection panel at home, dynamically adjusts electric vehicle's consumption if the house system is about to be overloaded.



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