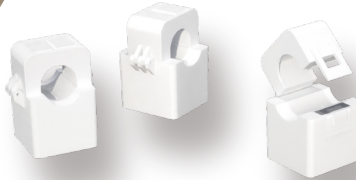


Datasheet



EVbee Spectra CT Set



Benefits



Easy to Use

Match modules to your power system for a tailored energy management setup. Utilize the EVbee app interface to quickly create personalized energy management scenarios.



Safe and Efficient

Detect real-time energy consumption for more efficient EV charging, preventing circuit overloads and power interruptions.



Cost-effective

No need for expensive infrastructure upgrades or manual tracking of electricity prices; our balancing strategy keeps costs low.



Renewable Energy Integration

Seamlessly integrate with solar and/or battery systems to make the most of your renewable energy production.



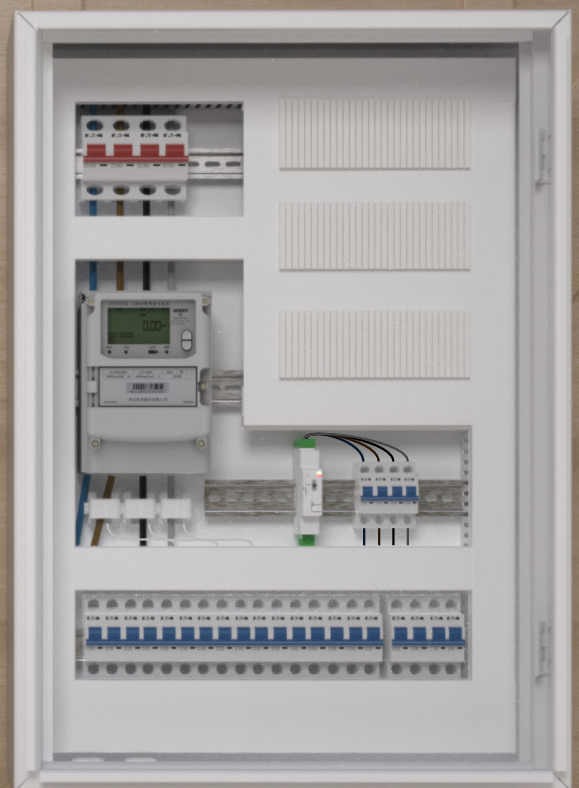
Stability

Stable and secure energy management with dependable wireless communication and dual safeguards through local edge computing and cloud connections.

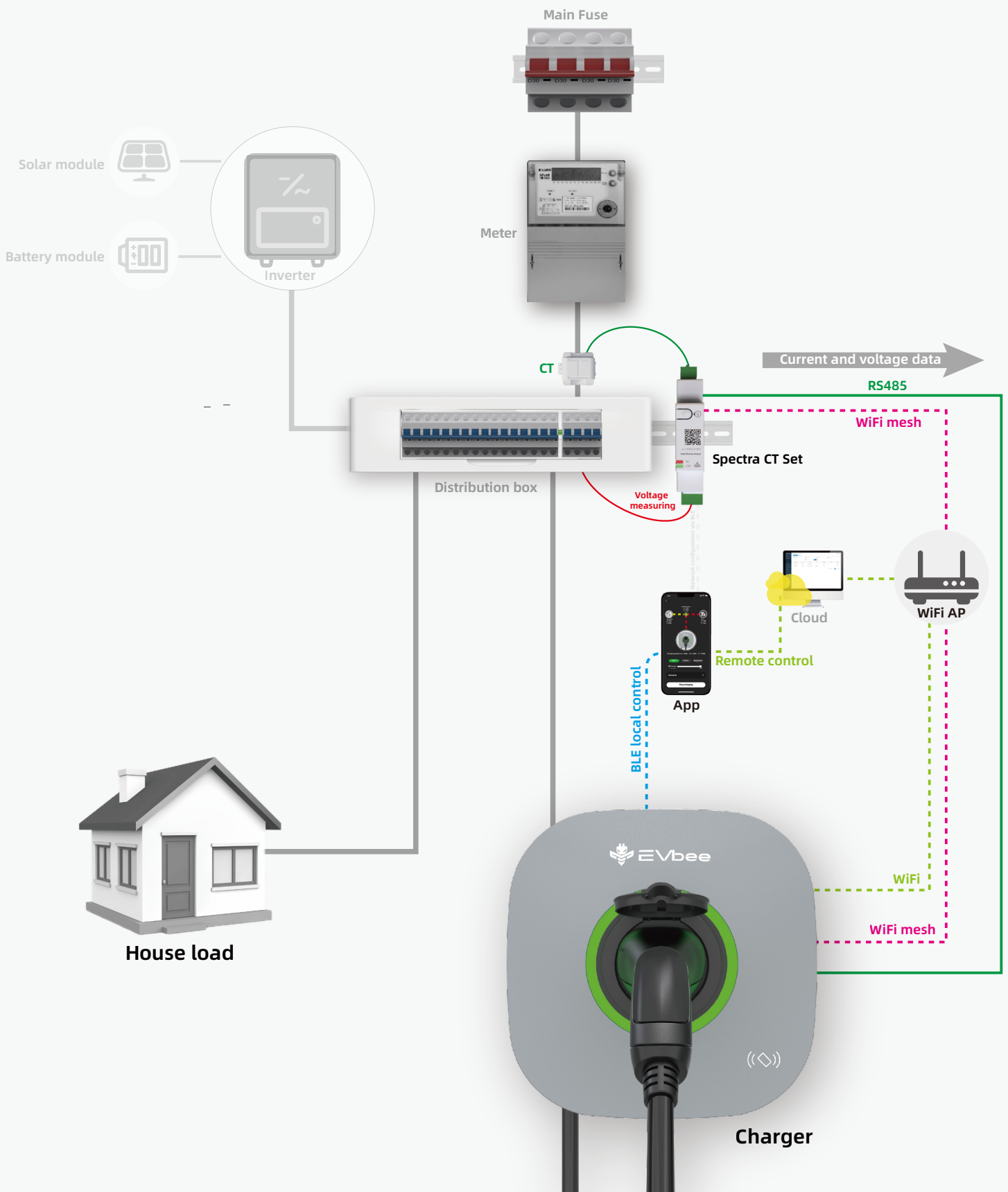


Simple Installation

Simple structure design, more convenient installation



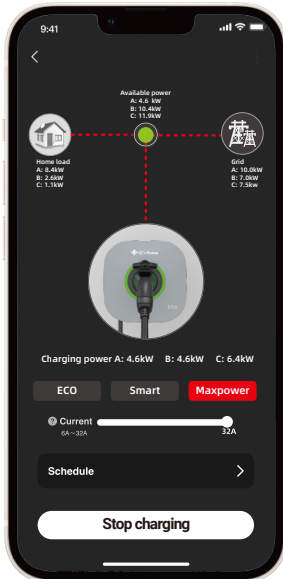
Framework



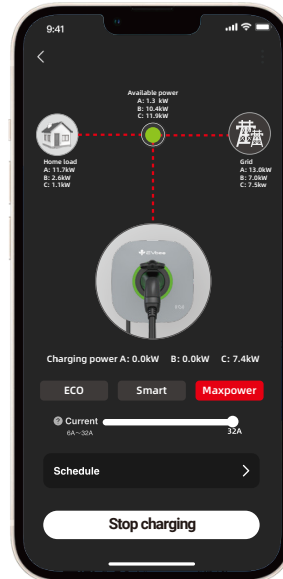
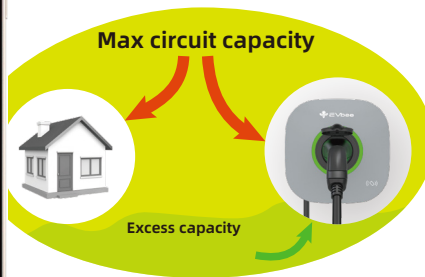
Usage

Dynamic load balancing and phase balancing with EVbee charger

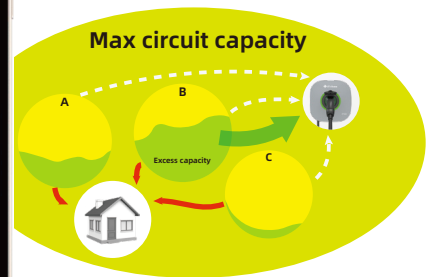
The EVbee Spectra CT Set can be utilised alongside EVbee chargers to accomplish load balancing and phase balancing of the charger through real-time monitoring of the load on each phase of the main circuit in the home. It calculates the total available charging capacity of each phase based on the maximum capacity of the home circuit.



Load balancing



Phase balancing

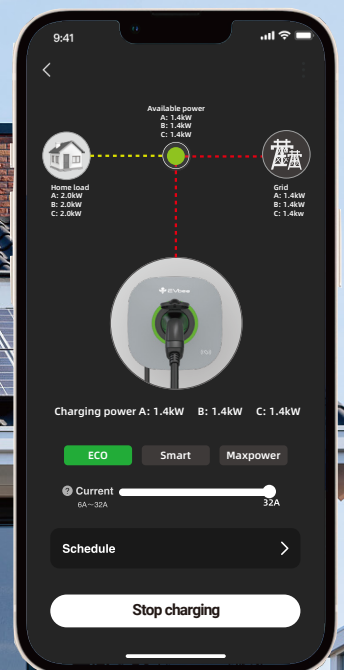
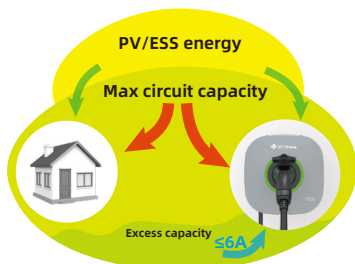


Renewable Energy Integration

The EVbee Spectra CT Set can be utilised alongside PV/ESS, it can optimize energy distribution, ensuring efficient charging for electric vehicles while maintaining grid stability. With dynamic load balancing capabilities, EVbee Spectra CT Set maximizes solar energy utilization without compromising reliability, offering a smarter and eco-friendly solution for electric vehicle charging infrastructure.

• ECO mode:

EV charging via solar power and limited power supply from the grid (No more than 6A).

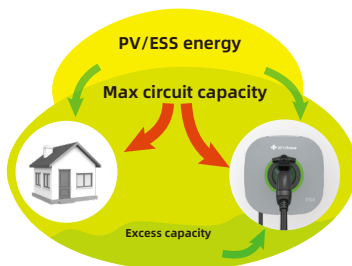


ECO mode

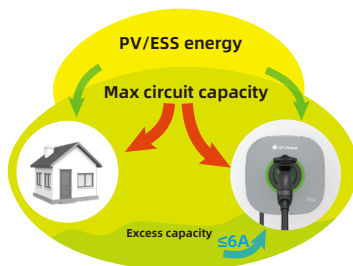
• Smart mode:

You can set your tariff based on the information provided by your electricity supplier and the system will automatically adjust the usage of the grid according to the tariff to get the maximum charging speed while spending as little as possible.

Off-peak tariff

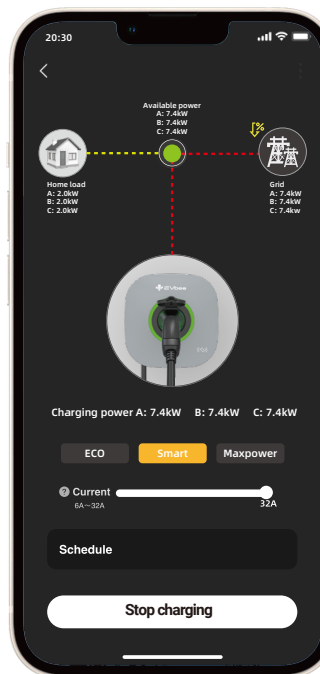
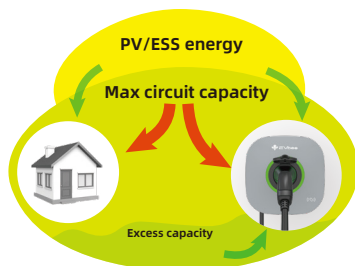


Peak tariff

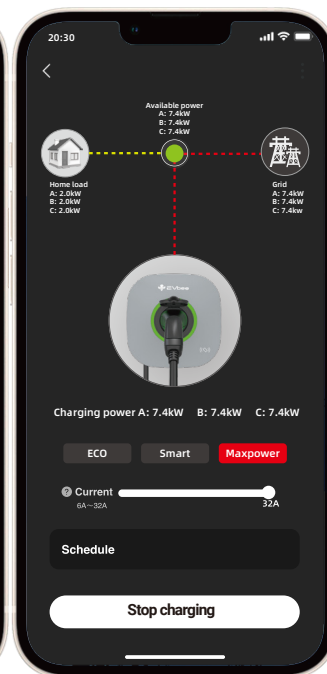


• Maxpower mode:

Maximum charging speed for you at all times.



Smart mode



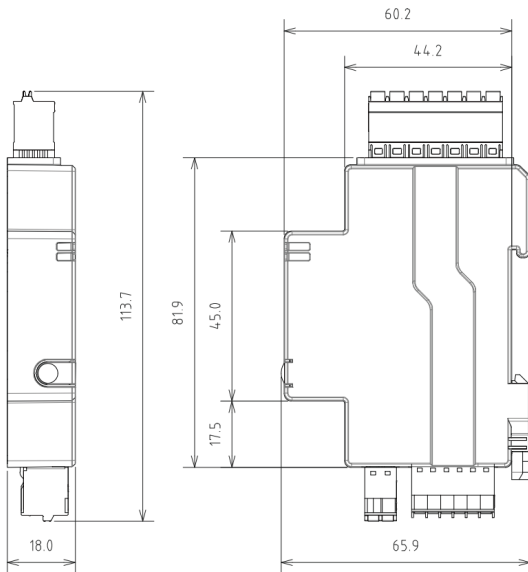
Maxpower mode

Technical Data

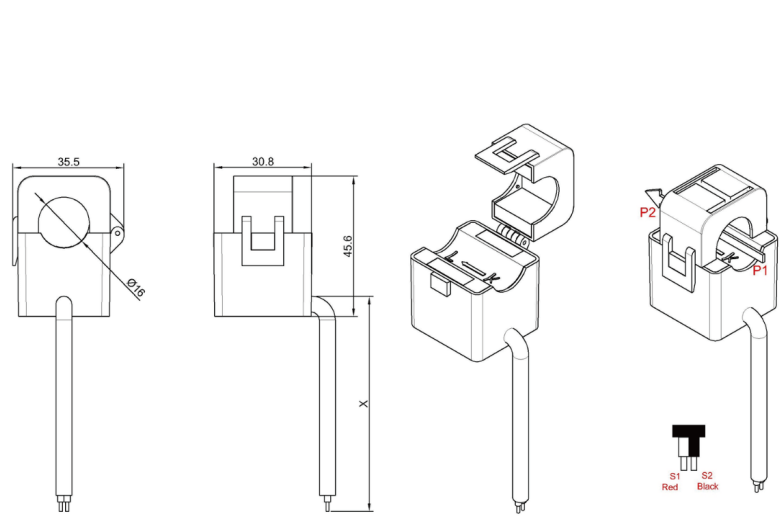
Technical specification	EVB-CE-ACSEBOX-170	EVB-CE-ACSEBOX-170
Rated operating voltage	220~240 VAC, 50/60 Hz	220~240 VAC/380~415 VAC, 50/60 Hz
Starting current	50 mA	50 mA
Max current	120 A	120 A
Over-voltage category	III	III
Rated insulating voltage	250V	440V
Rated impulse withstand voltage	4kV	4kV
Pollution degree	3	3
Protection degree	IP20	IP20
Measuring accuracy	Class 1	Class 1
Power consumption	Normal using: 0.5 Watt Pairing mode: 1 Watt	Normal using: 0.7 Watt Pairing mode: 1.4 Watt
Rated operating temperature	-25~60 °C	-25~60 °C
Size(HxWxD)	Box: 113.7 x18.0 x 65.9mm CT: 35.5x30.8x45.6mm	Box: 113.7 x18.0 x 65.9mm CT: 35.5x30.8x45.6mm
Reference standard	IEC 61557-12 IEC 61326-1 ETSI EN 300 328 ETSI EN 301 489-1 ETSI EN 301 489-17	IEC 61557-12 IEC 61326-1 ETSI EN 300 328 ETSI EN 301 489-1 ETSI EN 301 489-17
Integrated communication option	Wifi+BLE+RS485	Wifi+BLE+RS485

Dimensions

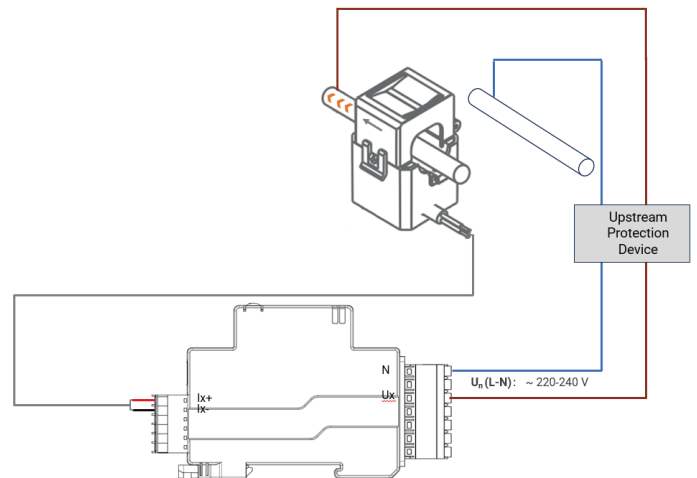
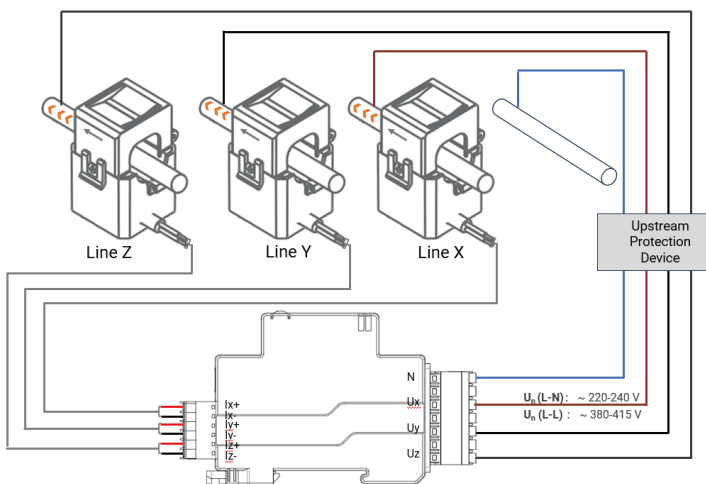
Dimensions - Box



Dimensions - CT



Installation



Note 1: The energy flowing  in the same direction as the current flow arrow printed on the sensor housing  is counted as forward energy.

Note 2: The voltage measurement must match the current measurement – $U_x (I_x)$; $U_y (I_y)$; $U_z (I_z)$, to monitor electrical data correctly.

Note 3: It can be damaged, if it is installed downstream of switching devices – such as a contactor, frequency converter or motor starters.

Note 4: It can cause product damage, if the blue cable for N connection is connected to phase conductors by mistake



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