

What is Load Balancing?

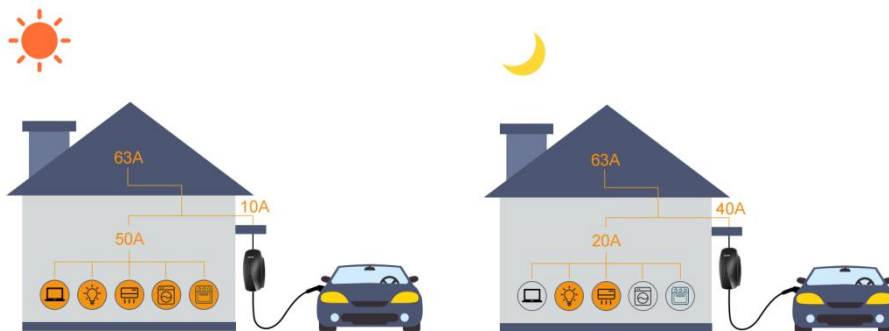
The current in every building is limited, such as 63A

Some times at home, suddenly, the lights go off or the washing thuds to the bottom of the barrel. It may means you have just done some load balancing!

Load Balancing with Electric Vehicles

The same idea applies to electric car charging. Too many EVs charging at the same time (or even one EV and too many household appliances), and you risk tripping the fuse.

This is especially a problem if your house has old electrics, and can't handle too much load. And the cost to upgrade your circuits often seems astronomical.



There is a simple way to reduce the costs. The answer, again, is load balancing!

Don't worry, you don't have to run through the house constantly switching on and off appliances to keep it all running.

Suntree EV chargers have built-in load management capabilities. It's definitely a feature to ask about, when shopping for a charger you can ask for dynamic load balancing!

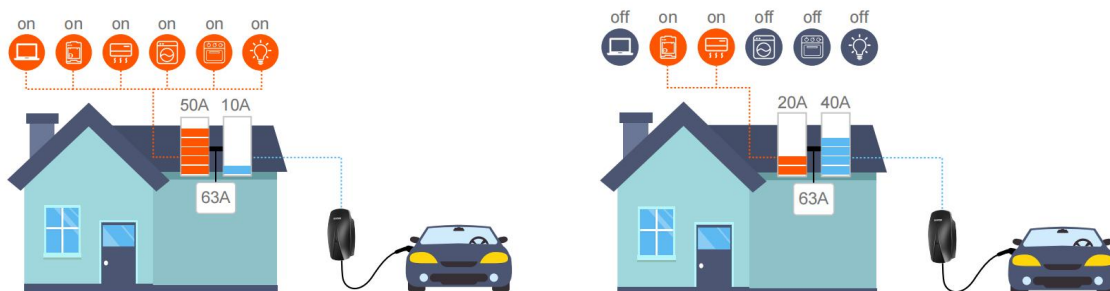
What is Dynamic Load Balancing?

With dynamic load balancing an appliance is able to intelligently adjust how much power it draws so that it always operates at a happy optimum.

If your EV charge point has this capability, it means that it never draws too much power.

Imagine you come home from work in the evening and plug in your car to charge. You go inside, switch on the lights, and start prepping dinner. The charger sees this activity and dials down the energy it asks for accordingly. Then when it's bedtime for you and your most demanding appliances, the charger steps up the energy demand again.

The best thing is that all of this happens automatically!



DLB CT Solution

Solution 1: 1Phase Charger CT Solution. Figure 1

Solution 2: 3 Phase Charger CT Solution. Figure 2

Figure 1. CT Connection Diagram (Single phase CT Solution)

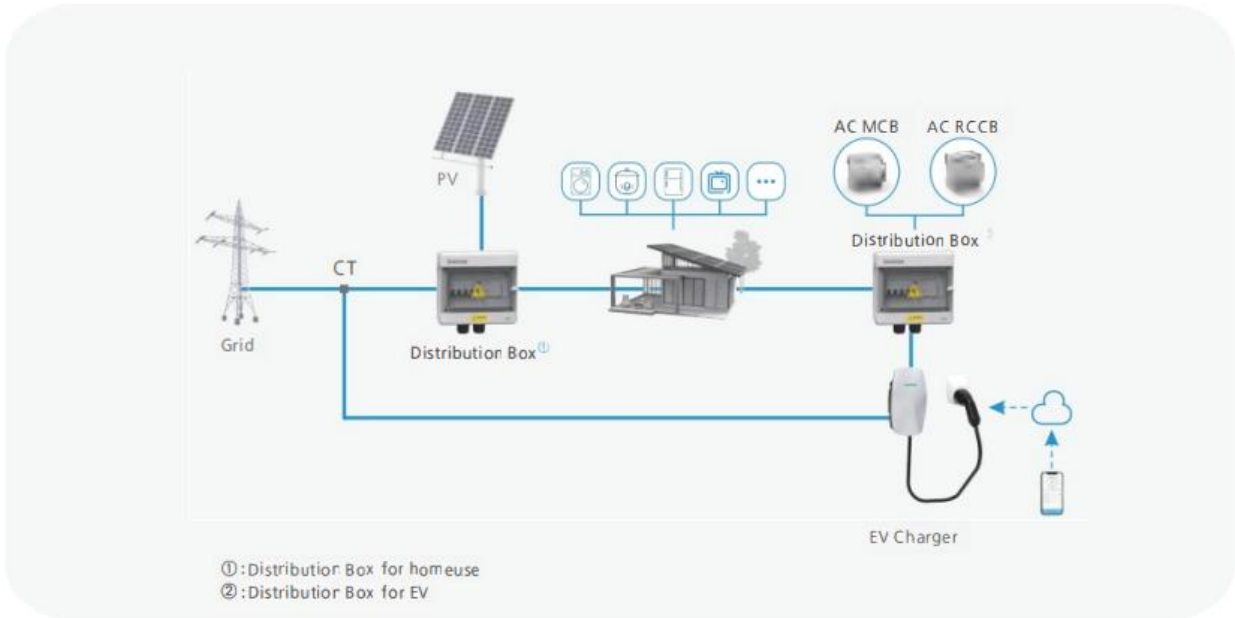
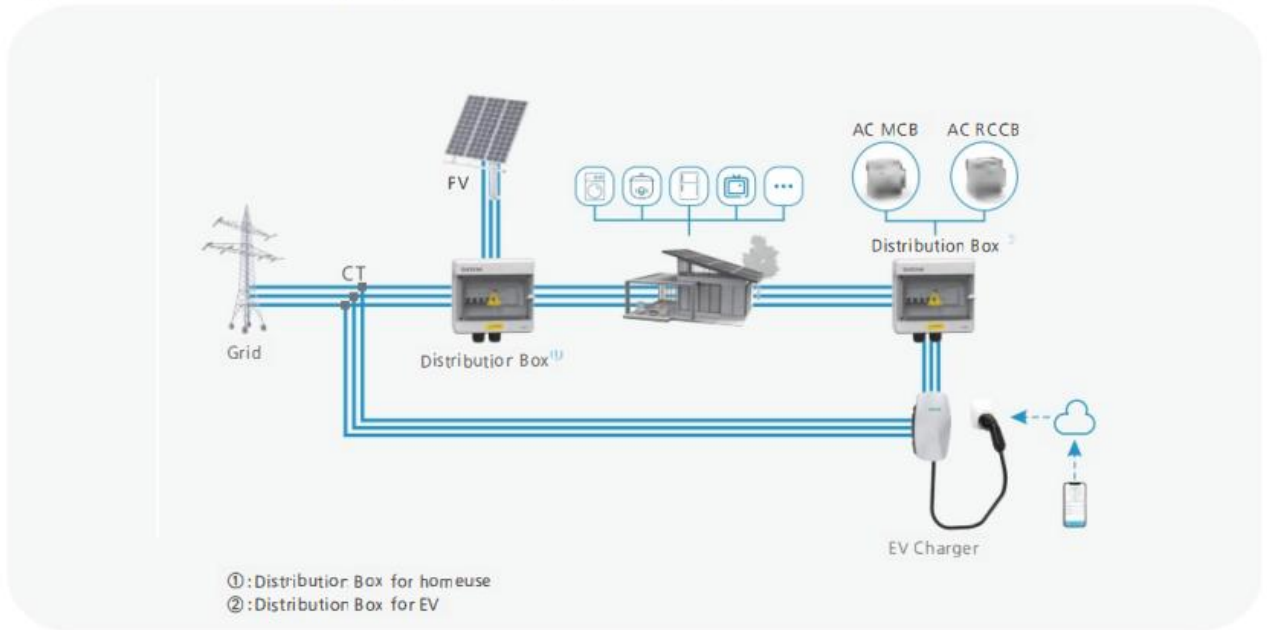


Figure 2. CT Connection Diagram (3 Phase Charger CT Solution)



DLB Smart meter +CT Solution

Solution 3: single Phase smart meter Solution.Figure 3

Solution 4:3 Phase smart meter + CT Solution.Figure 4

Figure 3.Smart Meter(1 Phase Meter Distribution Box Solution)

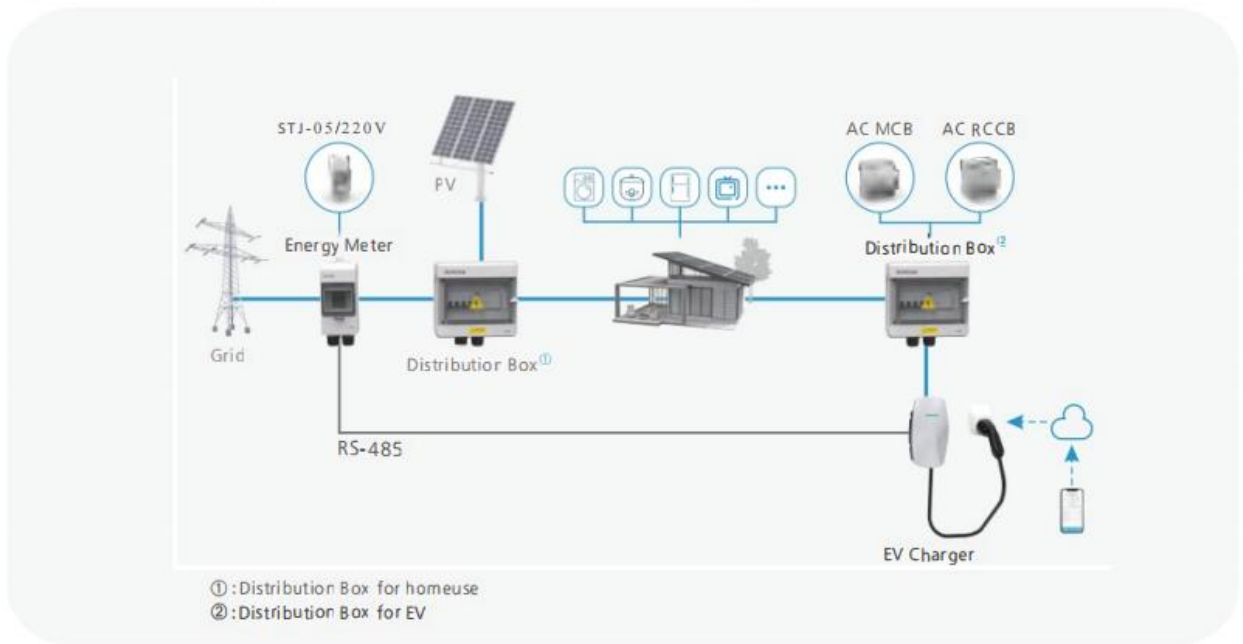
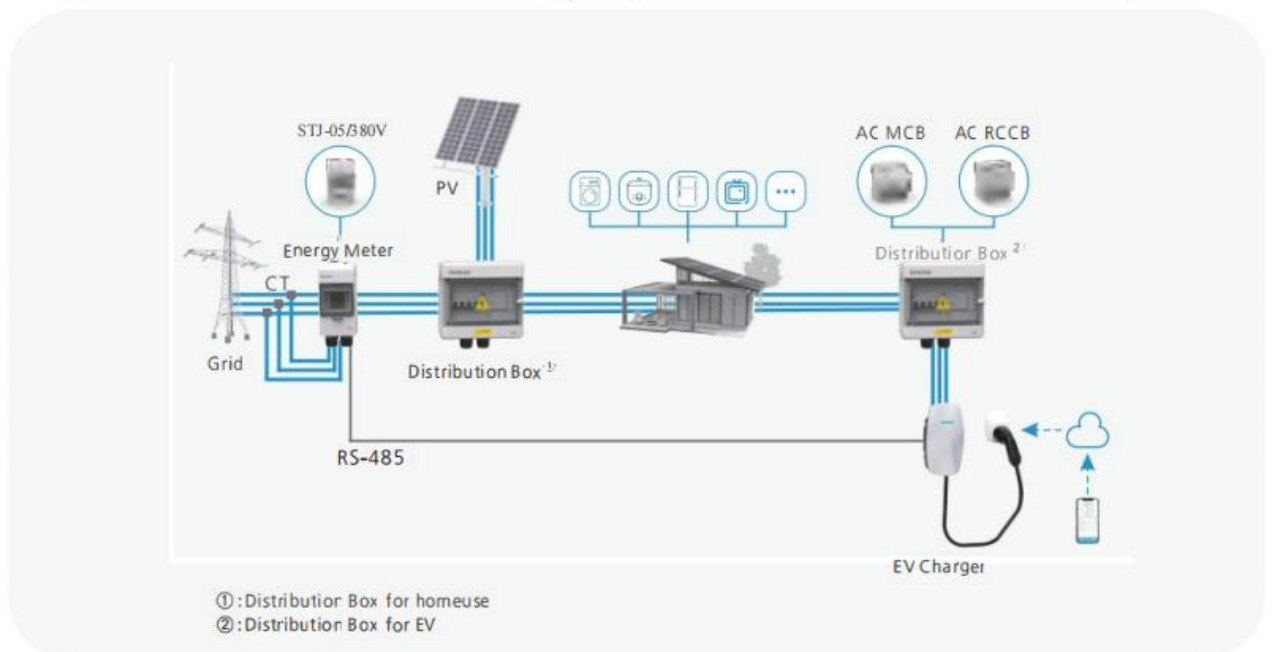


Figure 4. Smart Meter +CT Connection Diagram (3 Phase Meter Distribution Box Solution)



App Setting



Step 1:Open APP, choose either Smart Meter or CTsolution in the"Load Balance"Tab;

Step 2:Input the maximum household load current capacity;

Step 3:Click"Activate" button to enable this feature