

EV charger Parallel Function

Solax X1/X3 EVC



1 Introduction

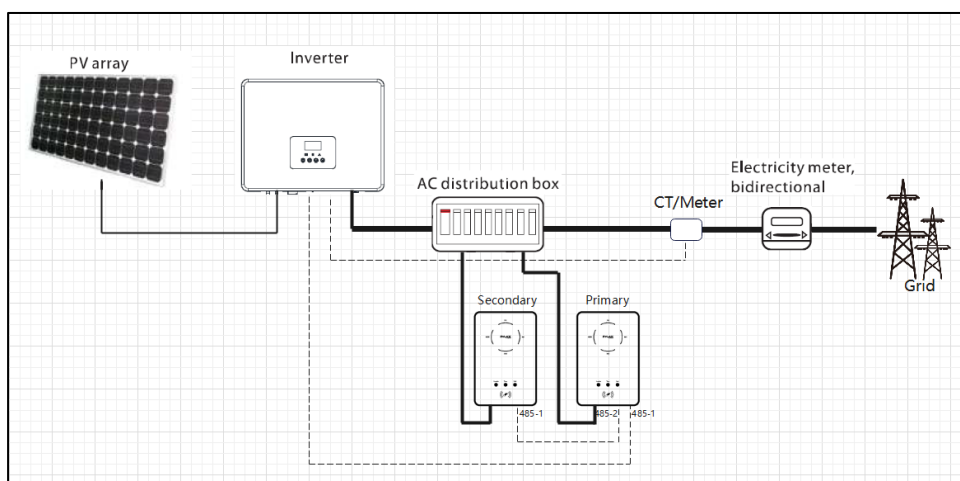
For the users who like to install two Solax EV chargers under same circuit, we develop parallel function to distinguish them as primary charger and secondary charger. The primary charger takes the responsibility to collect PV feed in information and grid energy consumption information together and to allocate the PV energy and remained load capacity for the system according to allocation ratio. The secondary charger's work mode setting will be copied from primary charger. This function only apply for two same model chargers.

2 Communication connection

- Communicate with inverter

Use two core cable to connect Primary charger's A1B1 or RJ45 port to inverter's COM port(For different inverter's connection , please refer to [Solax Inverter & EV charger connection and setting guide](#))

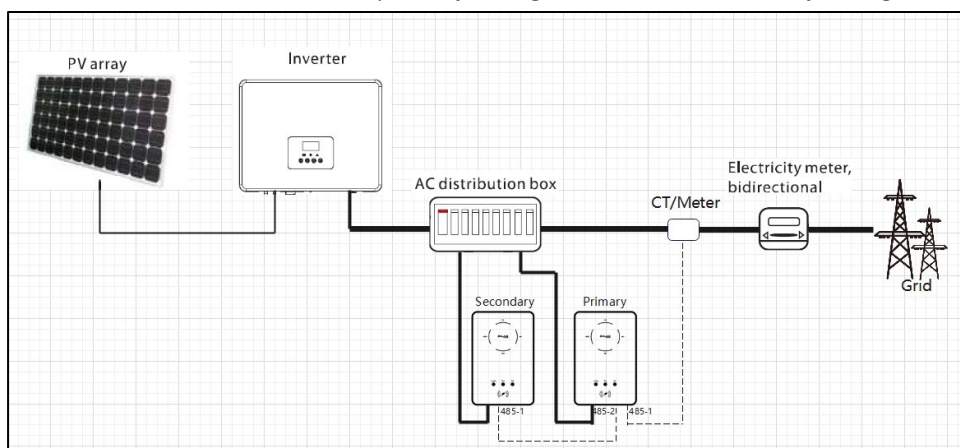
Use two core cable to connect primary charger's A2B2 to secondary charger's A1B1.



- Connect with CT

Connect CT to primary charger's RJ45 port(For connection instruction, please refer to the manual)

Use two core cable to connect primary charger's A2B2 to secondary charger's A1B1.



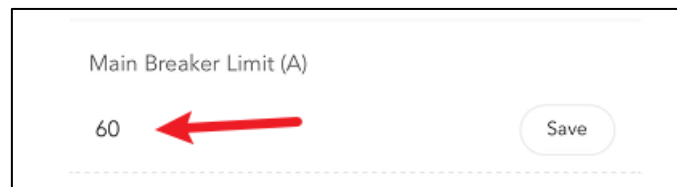
3. Setting

Do the APP setting on primary charger, no need to do setting on secondary charger.

- Enable Parallel function in advanced setting.
- Choose power allocation ratio, the default is 1:1, and supported ratio is 1:1, 1:2, 2:1. This feature is to allocate the PV energy and remaining load capacity for the two charger if user needs.



- Set the main breaker value as needed on primary charger.



4 . Work principle

- When primary charger or secondary charger works alone, they can use full PV energy and remaining load capacity.
- When primary charger and secondary charger work together, the primary charger will allocate the PV energy and remaining load capacity for two chargers. (Note: the allocation ratio will not be that accurate due the allocated energy unbalance, it is to keep the system work stable, so it is normal.)

Note: this function is available for home edition EV charger. It will be ready for new commercial edition EV charger soon.

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Notes:

All the operations described in this guide can only be performed by qualified electricians with a good knowledge of the characteristics and maintenance of the smart EV-Charger and the inverter. Any operations are prohibited before reading this guide and the relevant manual carefully.

All the settings for the smart EV-Charger and the inverter need to refer to the corresponding manual strictly. SolaX Power will not be responsible for any damages or harms caused by improper setting.