MOREK

Creating a better future for You

Morek EV AC Charger
PV (solar) System Configuration Manual

ev.morek.eu

Get electric cars charged easily and quickly

Solar charging parameters

Solar Mode

Used to determine whether to enable PV charging.
The default value is 0.

Values:
0: The solar charging function is not enabled
1: Turned on the solar ECO mode, which uses excess solar power to charge

Solar Current From Grid

When 'Solar Current From Grid' is set to 0 and there are no schedules forstarting charging, the charger will wait until excess PV current exceeds 6A before starting charging. If you have scheduled charging, the charging current of the charger is the maximum schedule limit current and excess PV current.

When 'Solar Current From Grid' is set to 6~32A, e.g. 6A, the charging current will be 6A plus excess solar current. The default value is 0.

Values:
0：No electricity from the grid, only the solar power is enough to charge the charger
6~32：The set amount of current is taken from the grid and the rest is taken from PV system. The units are Amps.

Solar Stable Time

Determines the timing of the change in solar charging current. When the excess solar current exceeds the current charging current by more than 2A and the holding time exceeds 'Solar Stable Time', the charger will increase the charging current. When the excess solar current is less than the current charging current and the holding time exceeds 'Solar Stable Time', the charger will reduce the charging current and will suspend charging if the current is lower than 6A. The default value is 60.

Values:
10~3600: Time before solar charging current changes. The unit is in seconds.

Solar charging parameters

Backend and APP implementation

The backend needs to support the configuration of these three solar parameters through OCPP communication: 'GetConfiguration' and 'ChangeConfiguration', to be able to activate solar charging on the EVC trough the backend management system.

For example:

- If you do not use solar to charge, set 'Solar Mode' to 0;
- If you only want to use solar to charge, set 'Solar Mode' to 1 and 'Solar Current From Grid' to 0;
- If you allow a minimum current from the grid to ensure that charging does not pause and use solar to charge more, set 'Solar Mode' to 1 and 'Solar Current From Grid' to 6;
- Take a certain amount of current from the grid to ensure sufficient electricity within a period of time and use solar to charge more, set 'Solar Mode' to 1 and 'Solar Current From Grid' to 6~32;
- If the solar charging current often jumps up and down, the 'Solar Stable Time' can be increased.

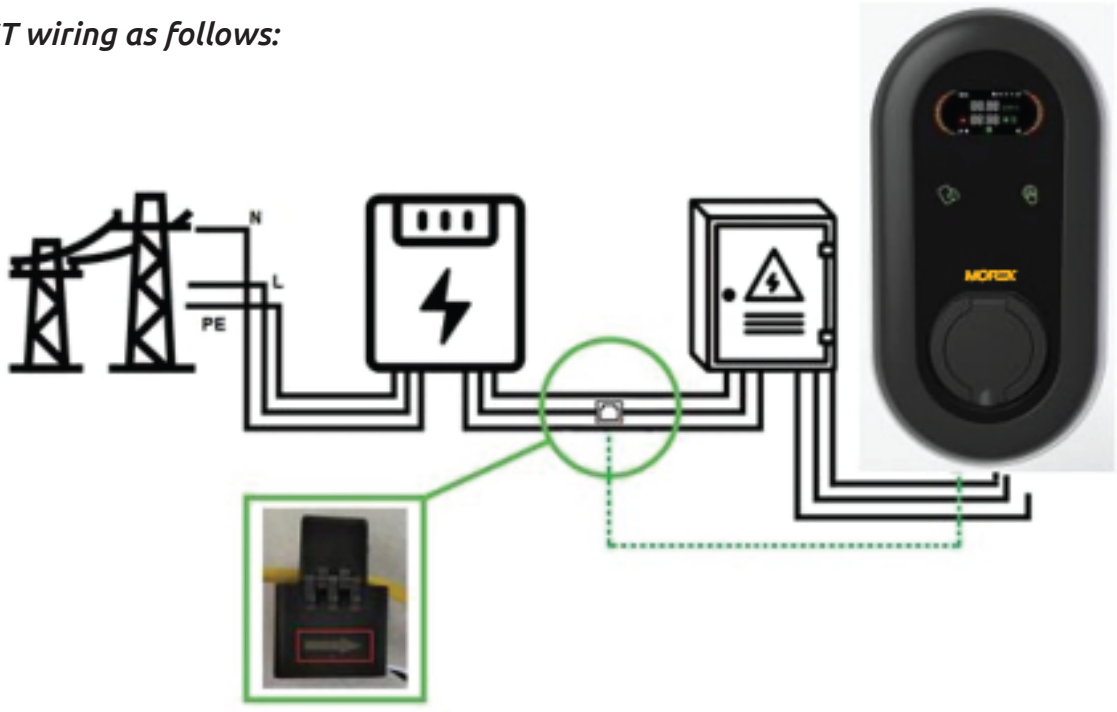
Morek EV Tool APP

Use the Morek EV Tool APP to change the configuration of the solar and charger parameters. The Morek EV Tool APP is designed specifically for modifying the parameters and configurations of the charger and the systems involved. Please note that this application is not intended for OCPP communication or the everyday management of the charger.

The Morek EV Tool for configuring the AC chargers allows changes to be made and charger parameters to be set. Install the Morek EV Tool from the Google Play Store or Apple App Store.

Solar charging parameters

Use CT wiring as follows:



Current direction, input towards home:

- 7,4 kW one-phase electricity, need to use 1 CT, ring CT covers L.
- 22 kW three-phase electricity, need to use 3 CTs, ring CT covers L1, L2 and L3.

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Unlock the potential of quick and affordable installation with our well-thought-out solution. Experience the benefits and elevate your business to new heights.

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Our comprehensive charging solution and management software enhance the appeal and revenue of your property with EV charging infrastructure.

For the end-user.

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From its durable and weatherproof design to its integrated electrical protection, our EV charger is reliable in every situation.

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Different modes of authentication support several use cases based on project requirements.

Use it with intuitive and easy–to–use charging management system. Simplicity, speed, and clarity. No APP, no registration – everyone can charge right now, including aliens. Just scan the QR code, pay, and charge.

Questions? *Make us work harder!*

More information about Morek EV chargers and discussions about EV user cases can be found from *ev.morek.eu*