# Dynamic Load Balancing Settings

DLB-pack

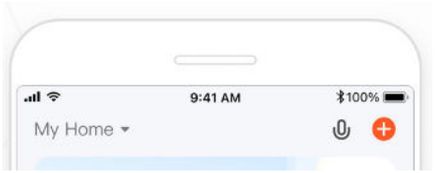
## Connect to APP

Download any TUYA-based APP from the APP store. For example, use one of the offical TUYA APPs listed below:

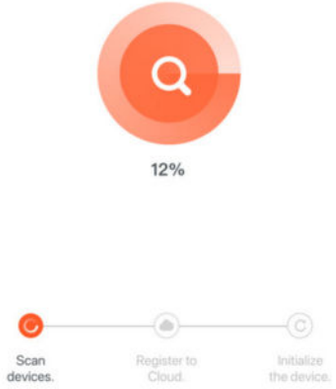
Tuya Smart

Smart Life

1. Create an account or use the APP as a guest
2. In the top right-hand corner, press the + symbol to add a new device.




3. Make sure the device is connected to power.
4. The device will be detected automatically, if not please reset the Wi-Fi connection and try again.

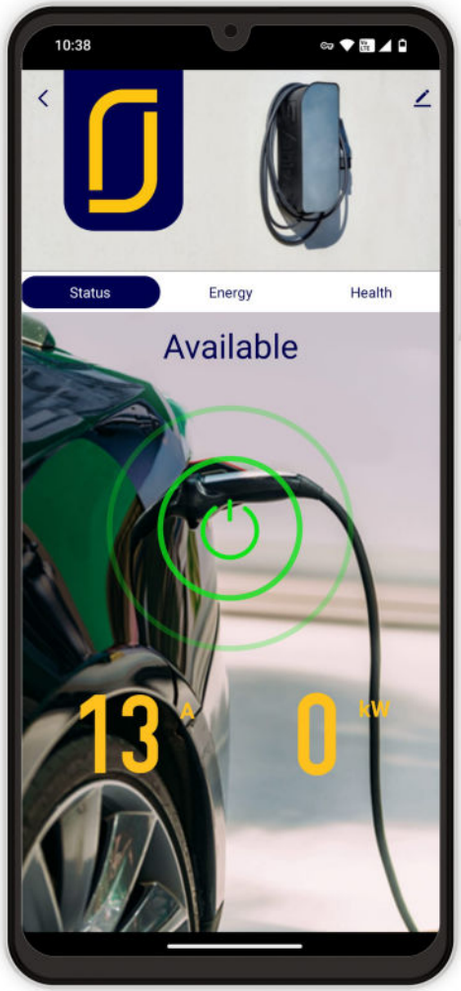



## Load Balancing

Scan the QR-code or go to:
www.EVshield.eu/Load-Balancing
to view our complete guide on Dynamic Load Balancing settings

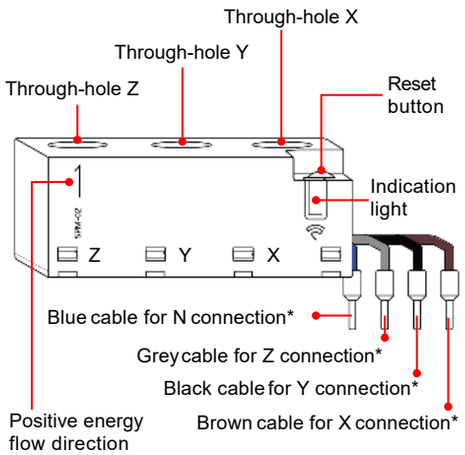
## Solar Panels

Scan the QR-code or go to:
www.EVshield.eu/Solar-Charging
to view our complete guide on Solar Charging settings

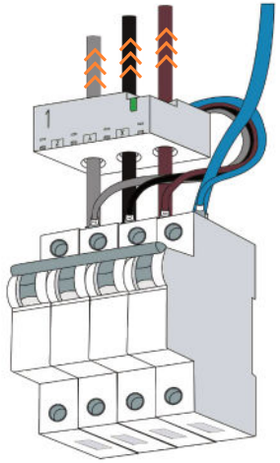


# INSTALLATION

## Installation & Wiring




* The sensor powers itself and measures voltage via the cables for X,Y,Z and N connections.



**Energy Meter Placement**
Install the energy meter directly after the main circuit breaker, do NOT install the energy meter near or inside the charging station.This ensures accurate Dynamic Load Balancing (DLB) by measuring total household consumption.

The energy flow ⁞ must be in the same direction as the current flow arrow ↑ printed on the sensor housing.

## Technical Specifications

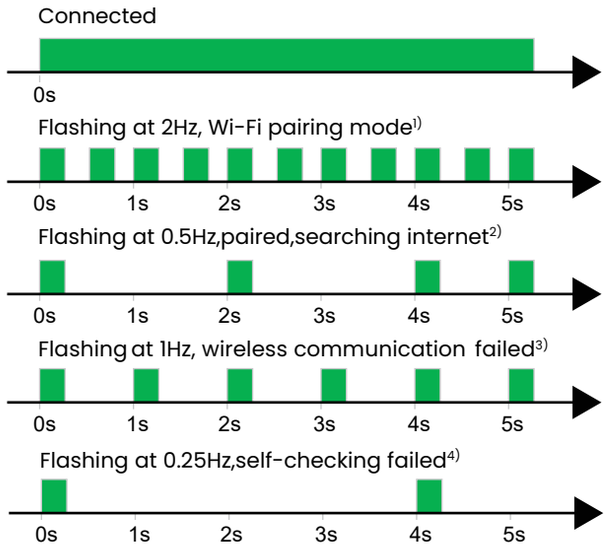
| | |
|---|---|
| Product name | : EVshield DLB-pack |
| Communication type | : 2.4GHz Wi-Fi |
| Rated voltage $U_n$ | : 3N~ 120-240/208-415V 50/60Hz |
| Max current $I_{max}$ | : 63 A |
| Over-voltage category | : III |
| Rated insulating voltage $U_i$ | : 400V |
| Rated impulse withstand voltage $U_{imp}$ | : 4kV |
| Pollution degree | : 3 |
| Protection degree | : IP20 |
| Rated operating temperature | : -25~60 °C |
| Energy measurement accuracy | : 1% |

## 2.4GHz Wi-Fi Settings

**Reset Functions**

Reset Wi-Fi : : Press & Hold Reste button 3 ~ 5 seconds

## LED Description




1. *Press the Reset button 3~5 seconds till the LED is quickly flashing to enter the pairing mode; After removing the device in APP, the device will automatically enter pairing mode.*
2. *The Device has successfully connected to a wireless network but is unable to establish a connection to the cloud server.*
3. *Failed to communicate with the cloud, the supply voltage may be too low.*
4. *Failed self-checking, the device needs to be replaced.*

## Usage Conditions

| | |
|---|---|
| Voltage | : ~230V AC |
| Amps | : Max. 63A |
| Temperature | : -25°C ~ 60°C |
| Humidity | : <85% |
| Altitude | : <2000m |
| Accuracy | : 1% |

### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Turn off all power supply sources before installation and during maintenance of this equipment.
- Do not use this device for voltage testing.

### FIRE HAZARD

- This Device must be installed after a suitable Protection Device, e.g. Circuit breaker
- The terminals of the voltage measuring cables must be adjusted according to the equipment for monitoring. It is the responsibility of the qualified installer to provide such cable terminals.

### RISK OF DAMAGING DEVICE

- Make sure the wiring is correct. (Brown=X, Black=Y, Grey=Z, Blue=Neutral)
- Disconnect this device before performing the dielectric withstand test.

**WARNING: Failure to follow these instructions can result in death, serious injury, or equipment damage.**



EVshield® DLB-pack