Dynamic Load Balancing Settings

Connect to APP

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



- 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.

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- 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.



Scan Register to Initialize devices. Cloud. the device.

www.EVshield[®].EU

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Load Balancing

Scan the QR-code or go to: <u>www.EVshield.eu/Load-Balancing</u> 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

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Installation & Wiring



flow direction

* 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 $\stackrel{>}{\geq}$ must be in the same direction as the current flow arrow 1 printed on the sensor housing.

Technical Specifications Produ

Product name	: EVshield DLB-pack
Communication type	: 2.4GHz Wi-Fi
Rated voltage Un	: 3N~ 120-240/208-415V 50/60Hz
Max current Imax	: 63 A
Over-voltage category	: 111
Rated insulating voltage U	: 400V
Rated impulse withstand voltage Uimp	: 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



- Press the Reset button 3~5 seconds till the LED is quickly flashing 1. 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.
- Failed to communicate with the cloud, the supply voltage may З. be too low.
- Failed self-checking, the device needs to be replaced. 4.

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

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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.





- 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.



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Disclaimer This guide is to be used as a reference only. EVshield does not provide advice,

instructions or recommendations regarding the electrical installation and cannot be held liable for incorrect installation of the EVshield and associated components. Always follow the instructions of the charger manufacturer and have the installation carried out by a certified installer according to local safety guidelines.