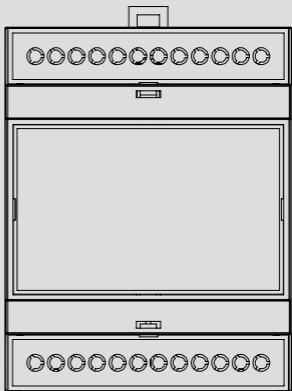


# PulseQ

# DLB RS-485

User Manual



**TOPDON**



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# Safety is Always the First Priority!

## READ ALL INSTRUCTIONS BEFORE USE



For your safety, the safety of others, and to avoid any damage to the product and your vehicle, **CAREFULLY READ AND MAKE SURE YOU FULLY UNDERSTAND ALL THE SAFETY INSTRUCTIONS AND MESSAGES ON THIS MANUAL BEFORE OPERATING.** You must also read the vehicle's service manual, and observe the stated precautions or instructions before and during any test or service procedure.



Keep yourself, your clothing and other objects away from moving or hot engine parts and avoid contact with electrical connections.



**ONLY OPERATE THE VEHICLE IN A WELL-VENTILATED AREA,** as the vehicle produces carbon monoxide, a toxic and poisonous gas, and particulate matter when the engine is running.



**ALWAYS WEAR APPROVED SAFETY GOGGLES** to prevent damage from sharp objects and caustic liquids.



**DO NOT ATTEMPT TO INTERACT WITH THE PRODUCT WHILE DRIVING.** Any distraction may cause an accident.

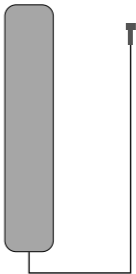
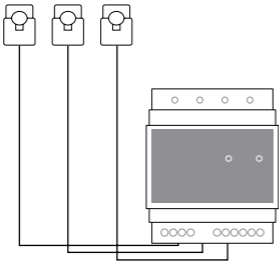


**DISCLAIMER:** TOPDON shall not be liable for any damage or loss arising from the use of this product.

# Section 1

## What's in the Box?

PulseQ DLB_3P_RS 485	1
Split-core Current Transformer (150A)	3
2.4G Wi-Fi Antenna	1
Information Card	1



# Section 2

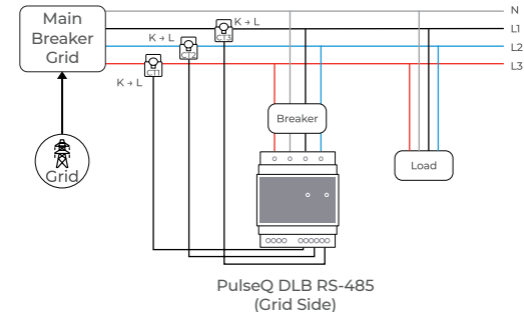
## Typical Wiring Diagram

### 2.1 Wiring in a Three Phase Residential Electricity Solar System



**Note:** The break for the meter is optional. You can connect the meter directly to the main breaker or without the breaker.

#### Wiring in a Single Phase Solar System



## 2.2 Specifications

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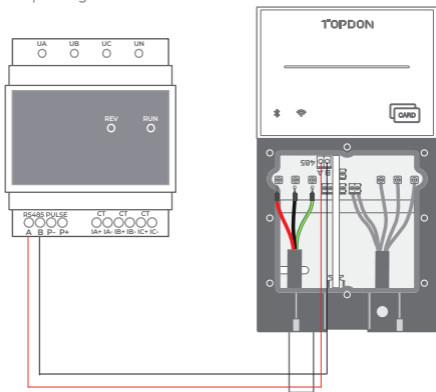
<b>Rated Current</b>	150A
<b>Rated Voltage</b>	230V AC, 50/60Hz $\pm$ 5Hz
<b>Power Consumption</b>	$\leq$ 2W (220V AC input)
<b>Communication Rate</b>	1200, 2400, 4800, 9600Bps 9600Bps by default
<b>Safety Protection</b>	Reverse polarity protection
<b>Dimensions (H×W×D)</b>	145*85*103mm
<b>Weight</b>	0.6kg
<b>Storage Temperature</b>	-40 ~ +85°C
<b>Operating Temperature</b>	-20 ~ +60°C
<b>Relative Humidity</b>	5 ~ 95% RH, no water droplet condensation

# Section 3

## WiFi Setup

### 3.1 Hardware Connection

1. Connect your vehicle to the charger.
2. Connect the PulseQ DLB to a power source.
3. Encircle the live wire of the input line with a current collecting magnetic loop.
4. Remove the front cover and inner cover of the charger. Pass the RS-485 communication cable (not included) through the wiring hole on the bottom of the charger. Then connect the RS-485 communication cable to the corresponding terminal block.





## 3.2 App Configuration

1. Open the PulseQ App. Tap the  icon on the upper-right corner (See Fig. 3-1). Then tap "Load Balancing" (See Fig. 3-2).

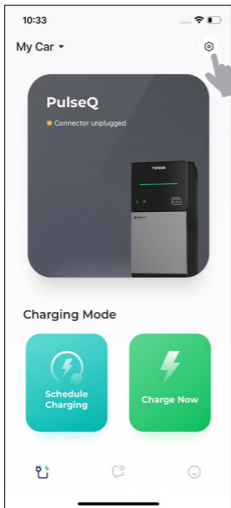


Fig. 3-1

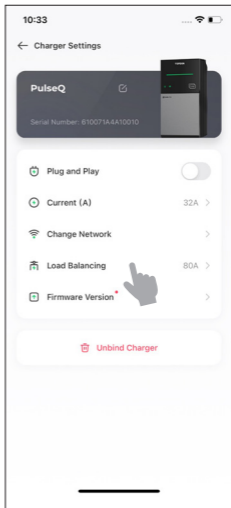


Fig. 3-2

2. Tap "Add PulseQ DLB" (See Fig. 3-3). Then scan the barcode on the PulseQ DLB (See Fig. 3-4).

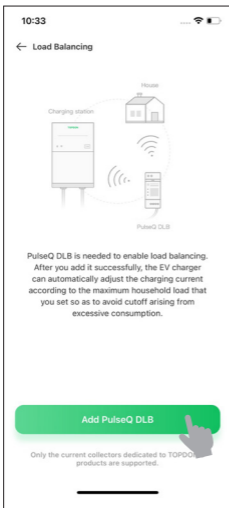


Fig. 3-3

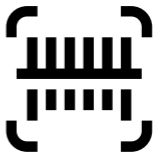


Fig. 3-4

3. Tap "Add PulseQ DLB" (See Fig. 3-5).

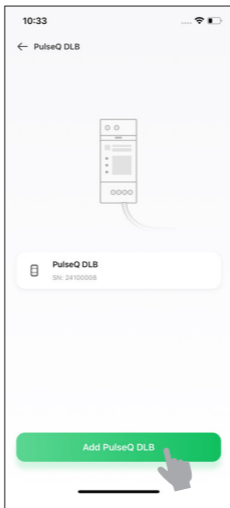


Fig. 3-5

4. Added successfully. Tap "**Set Load**" to set the total household current input. Or, tap "**Set Later**" to set it later.

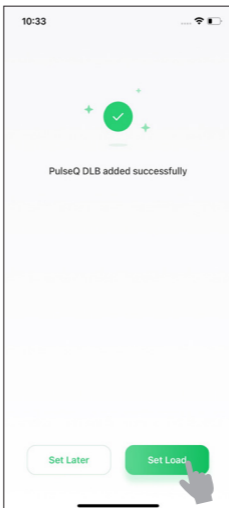
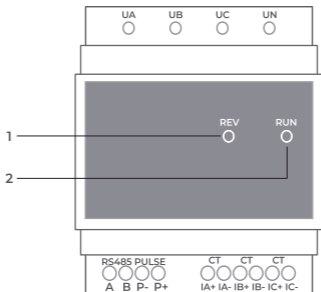


Fig. 3-6

When the actual total current exceeds the set current, the charger will automatically adjust the current to ensure that the total current does not exceed the set current.

# Section 4

## LED Indicators



No	Name	Indicator Status	Connotation
1	REV	On	The current is reversed in the direction marked on the bottom of the CT.
2	RUN	On	Powered on.
		Blinking	WiFi module communicating with the device.

# Section 5

## Warranty

### TOPDON's Limited Warranty

TOPDON warrants to its original purchaser that the company's products will be free from defects in material and workmanship for 12 months from the date of purchase (Warranty Period).

For the defects reported during the Warranty Period, TOPDON will either repair or replace the defective part or product according to its technical support analysis and confirmation.

TOPDON shall not be liable for any incidental or consequential damages arising from the device's use, misuse, or mounting.

If there is any conflict between the TOPDON warranty policy and local laws, the local laws shall prevail.

This limited warranty is void under the following conditions:

- Misused, disassembled, altered or repaired by unauthorized stores or technicians.
- Careless handling and/or improper operation.

Notice: All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness. TOPDON reserves the right to make changes at any time without notice.

# Section 6

## FCC

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Manufacturer:**

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