RAEDIAN

Quick Guide
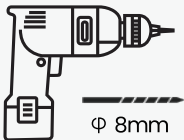
NEO
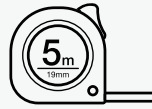
What's in the box

X 1

RAEDIAN
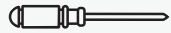X 2

X 1

X 4

X 4

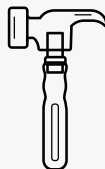X 2

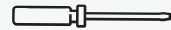X 2

Tools suggestion

Φ 8mm

5m
19mm

Hexwrench 5mm

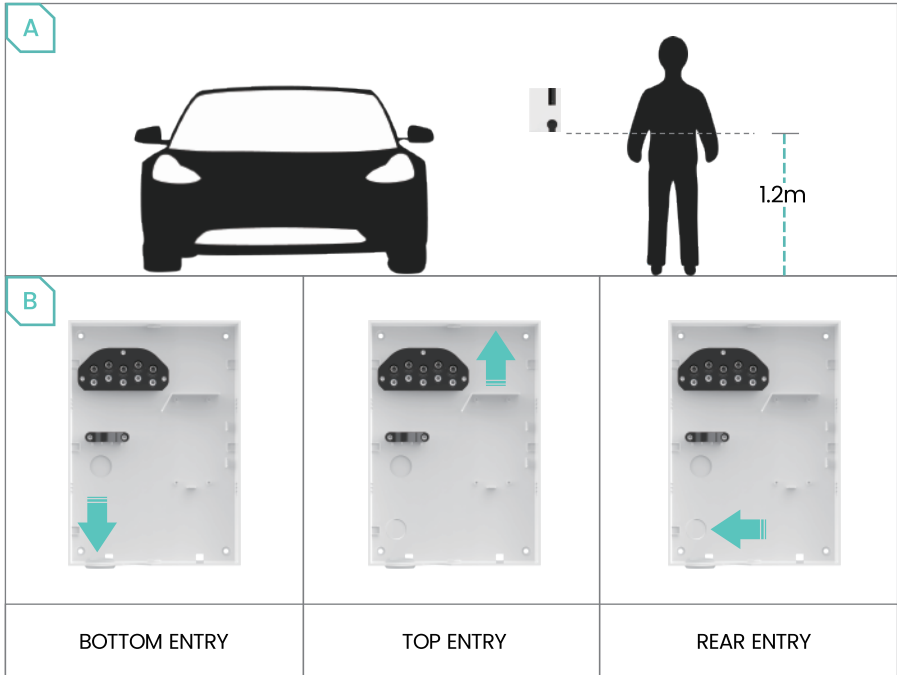Hexwrench 4mm

Phillips Screwdriver

Slotted Screwdriver

Disclaimer
The information in this document is subject to change without notice and should not be construed as a commitment by RAEDIAN. RAEDIAN assumes no responsibility for any errors that may appear in this document.
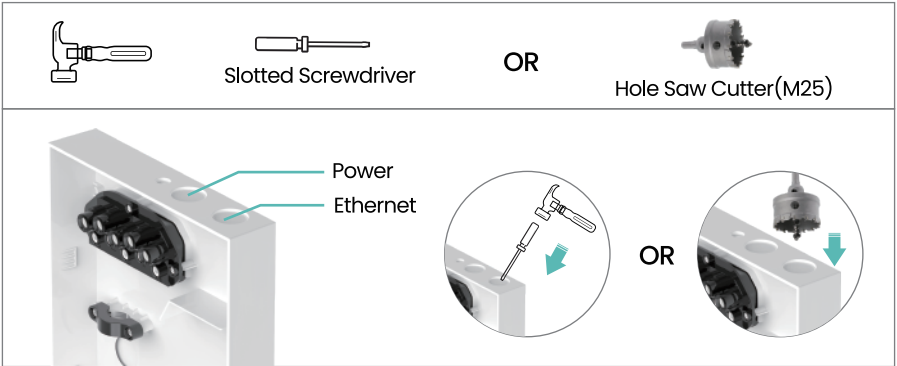
1.1 Power Cable Planning

A		
1.2m		
B		
BOTTOM ENTRY	TOP ENTRY	REAR ENTRY

1.2 Ethernet Cable Planning

REAR ENTRY	TOP ENTRY	Ethernet cable CAT5 or higher; Cable length depends on the distance between wallbox and distribution board.

1.3 Ethernet Cable Entry

Slotted Screwdriver **OR** Hole Saw Cutter(M25)

Power

Ethernet

OR

2 Mounting

Φ 8mm   Phillips Screwdriver   X 4 ⊢ 50mm ⊣   X 4

A

B

Φ 8mm
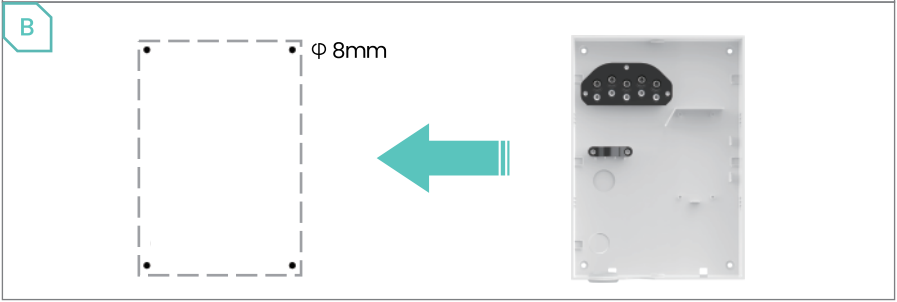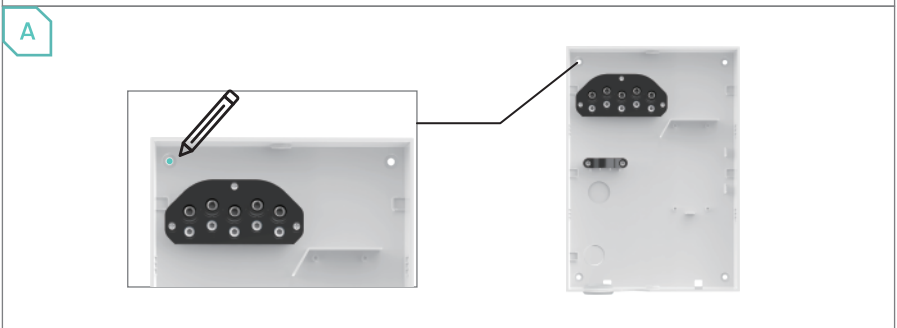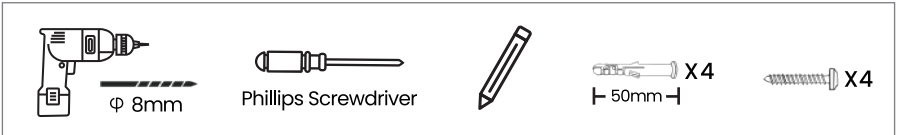
3 Wiring

Hexwrench 5mm
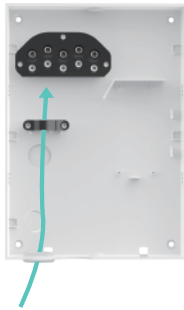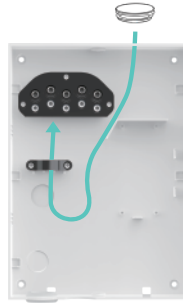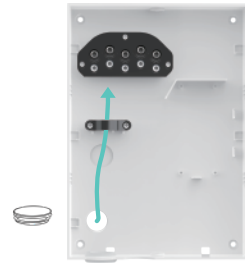
X 1

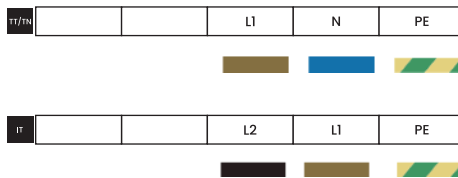| BOTTOM ENTRY | TOP ENTRY | REAR ENTRY |

1 Phase Connection

TT/TN			L1	N	PE

IT			L2	L1	PE

16mm
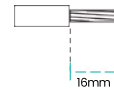
3 Phases Connection

TT/TN	L3	L2	L1	N	PE

IT		L3	L2	L1	PE

16mm
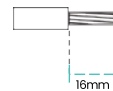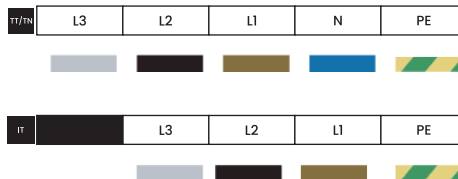
⚠ An external at least Type A RCD is required to be installed in the upstream.

Ensure the installation comply with all applicable laws and regulations.

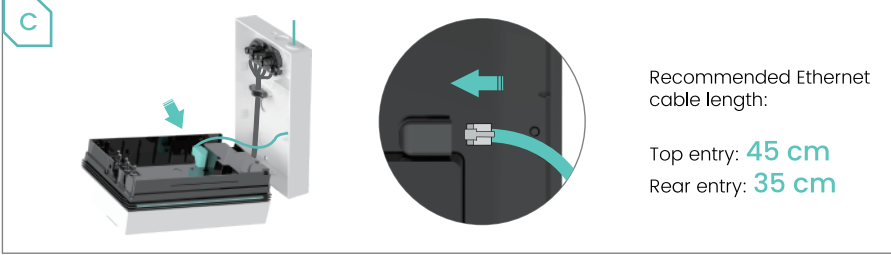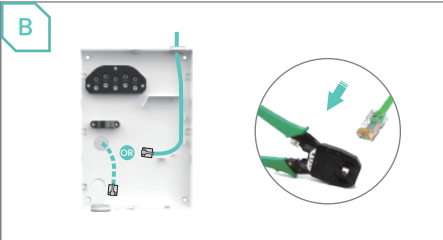## 4.1 Connect Ethernet Cable (for Home Balance and Solar Charging)
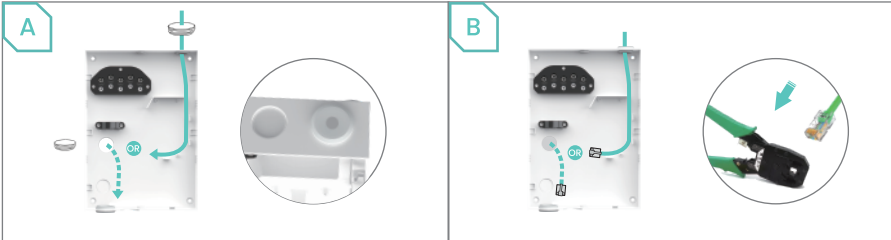
A

B

C

Recommended Ethernet cable length:

Top entry: **45 cm**

Rear entry: **35 cm**

4.2 Complete Installation

A

"Clip!"

B

⚠ Be sure to be fastened

⚠ Be sure to be fastened

5 CT Installation
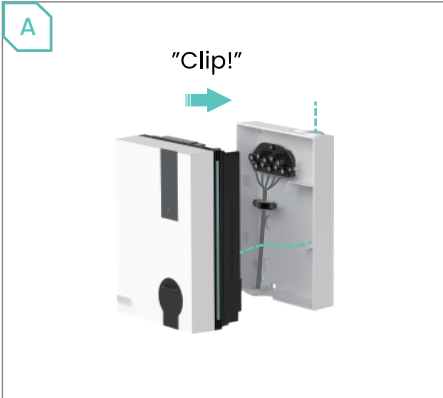
5.1 CT Clamp Positioning

5.1.1 Home Balance

Single phase

Grid

Meter

Power Distribution Board

00623

L1

CT

Power cable

CAT5 cable

RAEDIAN Wallbox

Load

Three phase

Grid

Meter

Power Distribution Board

00623

L1

L2

L3

CT1

CT2

CT3

Power cable

CAT5 cable

RAEDIAN Wallbox

Load
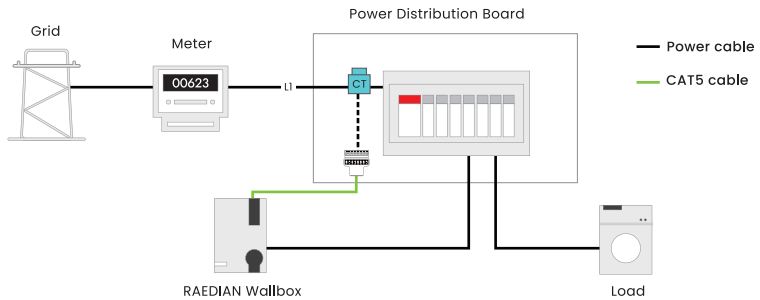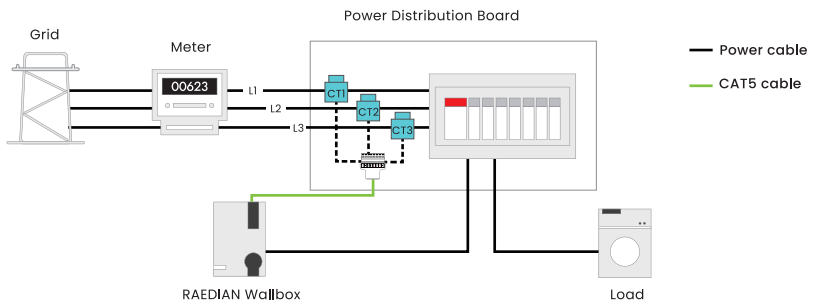
5.1.2 Solar Charging

Single phase home with single phase PV

Grid

Meter

00623

Power Distribution Board

Meter

00623

Inverter

PV Array

L1

CT1

CT2

RAEDIAN Wallbox

Load

— Power cable

— CAT5 cable

Three phase home with single phase PV

Grid

Meter

00623

Power Distribution Board

Meter

00623

Inverter

PV Array

L1

L2

L3

CT1

CT3

CT2

RAEDIAN Wallbox

Load

— Power cable

— CAT5 cable
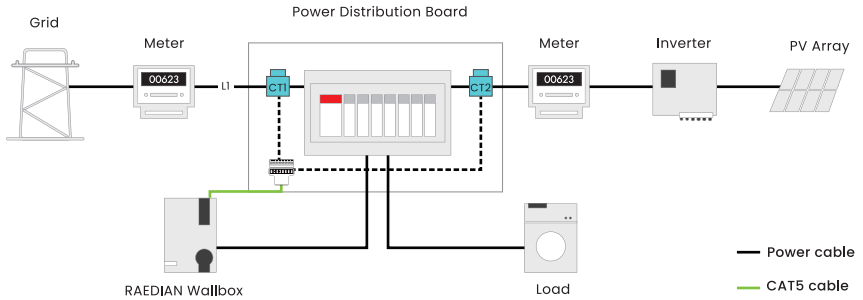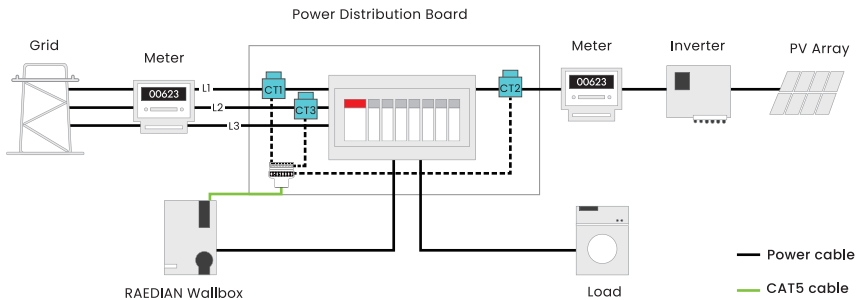
Three phase home with three phase PV

Grid

Meter

00623

Power Distribution Board

Meter

00623

Inverter

PV Array

L1

L2

L3

CT1

CT2

CT3

RAEDIAN Wallbox

Load

— Power cable

— CAT5 cable
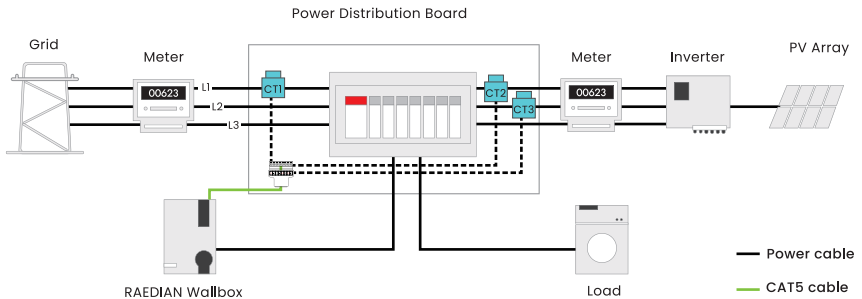
5.2 Install CT clamp

A **Wire CT clamp to adaptor**

CT2   CT3   CT1
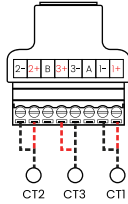
wiring sequence for straight through cable

CT3 CT2   CT1
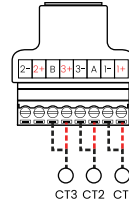
wiring sequence for crossover cable

B **Close CT clamp**
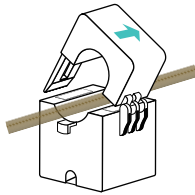
C **Connect adaptor**
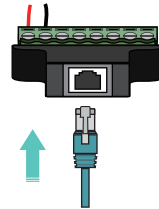
6 Get Started

6.1 LED Indicators
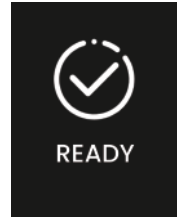

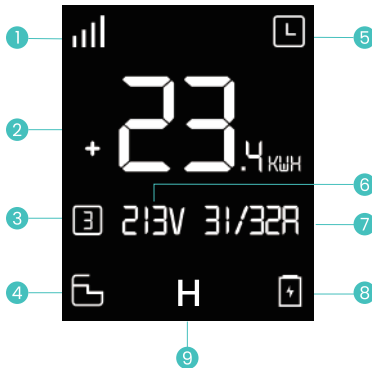| LED Status	Definition
⬜ White	Available
🟩 Green	Cable plugged in: • Pending for authorization • Waiting for EV • Charging stopped by EV
🟦 Cyan	Charging in progress
🟥 Red	Fault state

6.2 OLED Display

Power on
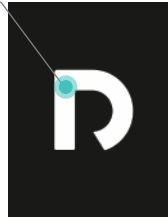
Booting

Available

READY

Error Code

1 Connectivity
- Wi-Fi
- BLE
- 4G (optional)

2 Energy Delivered

3 Phase
- 1 Phase
- 3 Phase

4 EV Connected
- Cable plugged in, waiting for authorization
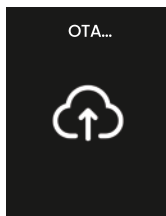- Charging

5 Schedule

6 Voltage

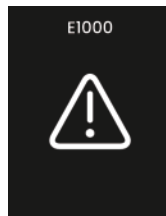**7** Real-time Charging Current/ Current Available

8 Charging
- Charging
- Charging complete

OTA

Faulted

9 Load Management
- H   Home Balance activated
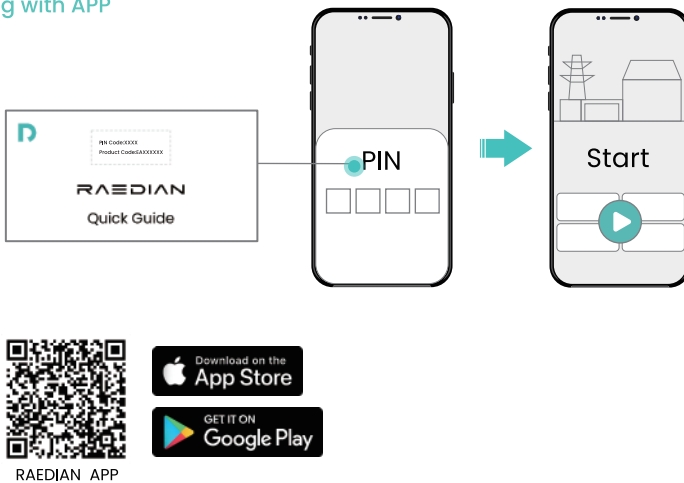- H   Waiting for grid capacity restored
- H! CT error

- S   Solar Only activated
- S   Waiting for surplus
- S! CT error
- E   EMS connected

Access

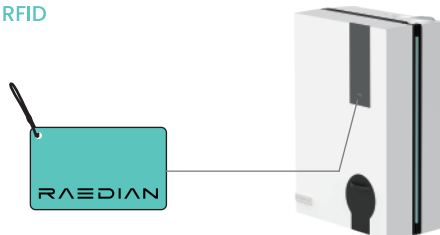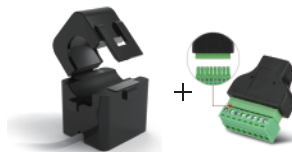## 7.1 Plug And Charge (Default)

7.2 Authorization (Set In APP)

Paring with APP

PIN Code:XXXX
Product Code:SAXXXXXX

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Quick Guide

PIN

Start

RAEDIAN APP

Download on the App Store

GET IT ON Google Play

Authorized with RFID

RAEDIAN

8 Accessories

CT clamp
For dynamic load balancing

CT kit
For dynamic load balancing and solar charging

Charging cable 7kW/22kW
5m/7.5m, Type 2 to Type 2
Comes with a carry bag

Pedestal with roof
For charging station mounting

Wall bracket
Safe and secure installation on uneven surfaces

Cable hook
Convenient for keeping your charging cable organized

For more information,
please scan the QR code or visit us:
https://raedian.com/support

For instruction videos,
please scan the QR code or visit us:
https://www.youtube.com/@EVWallboxRaedian