ENERGY METERS
Installation Guide

wallbox

Purpose and Scope of the Document:

The purpose of this document is to outline the instructions for installation of energy meters compatible with the Power Boost and Eco-Smart functionalities.

For instructions to install an MID meter, refer to the relevant **Installation Guide**.

Important Notes

1. After the installation, connect the energy meter before closing your charger. In case the charger had already been installed, open it to connect the energy meter.

2. Only energy meters delivered by Wallbox are compatible.

3. The installation must be performed only by suitably qualified personnel, according to local regulations.

Important Notes

4. Make sure to update your charger with the latest software version before installing the meter.

5. Ensure the charger is powered off before connecting the meter.

6. For more information, refer to your charger's **Installation Guide** on Wallbox Academy.

Materials and Tools

Inside the Box

A

Meter

B

Meter Wiring
Guide

C

Grommet

D

Dynamic Power
Sharing Installation
Manual

Devices

Pulsar Plus

Commander 2

Copper SB

Materials and Tools

Tools

A

Philips Screwdriver

B

Cutting Pliers

C

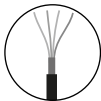**Torx T9**
Pulsar Plus
Commander 2

D

Torx T20
Copper SB
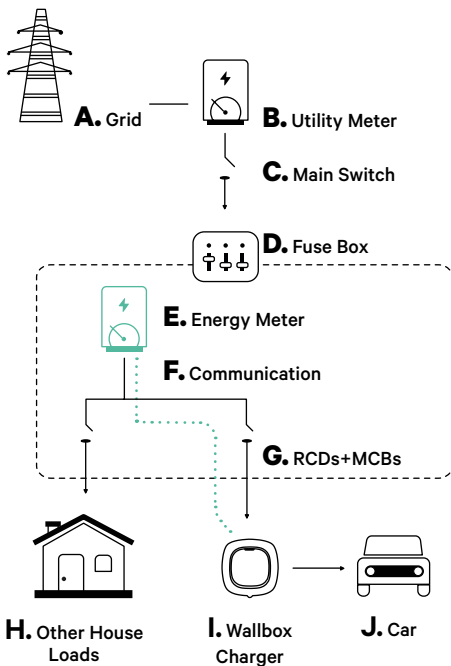
E

Wire Strippers

F

Recommended Cable
(STP Class 5E
500 Max Length)

Compatibility Table

Meters	Power Boost	Eco-Smart
EM340	PF.A / PF.B	PF.B
EM112	PF.A / PF.B	PF.B
SPM1-100-AC	✓	✗
EM330 CTA 5X 250 A 5A CTA 6X 400 A 5A CTD-6S 600 5A	✓	✓
N1CT	✓	✓
PRO2 MOD	✓	✓
PRO380 MOD	✓	✓

Placement

1. Place the energy meter after the mains supply in the fuse box.

A. Grid

B. Utility Meter

C. Main Switch

D. Fuse Box

E. Energy Meter

F. Communication

G. RCDs+MCBs

H. Other House Loads

I. Wallbox Charger

J. Car

Placement

2. For all the meters, follow the corresponding manual included in the box.

EM 340*

A. 3-Phase < 65 A

EM 112

B. 1-Phase < 100 A

EM 330
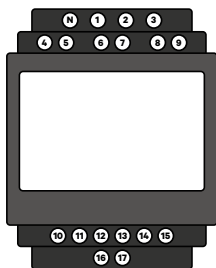
C. 3-Phase < 250 A

Note: For the EM340 and the EM112 meters, only the PF.B versions are compatible with the Eco-Smart functionality.

For the Power Boost functionality, both the PF.A and PF.B versions of EM340 and EM112 meters are compatible.

Refer the Eco-smart configuration article to know more.

SPM1-100-AC*

CURRENT
DIRECTION →
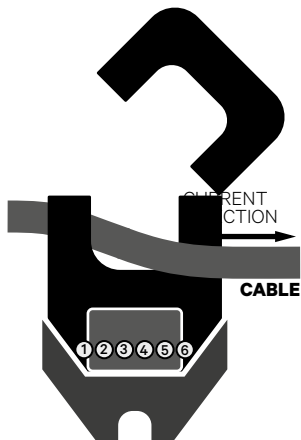
CABLE

1. Used for 1-Phase installation. Up to **100A.**

2. Clip the power meter to the mains power cable.

3. Neutral cable must not be drawn through the clamp.

Note: Ensure to insert the cable through the clamp in the correct direction as shown.
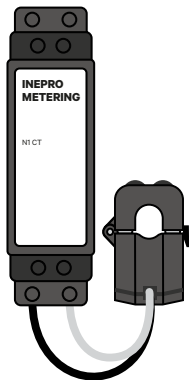
*Not compatible with the Eco-Smart functionality.
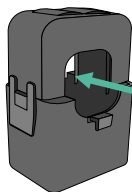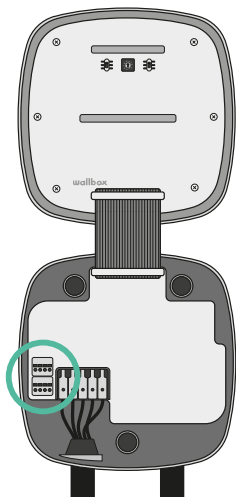
Pro MOD2 / Pro 380 MOD / N1 CT
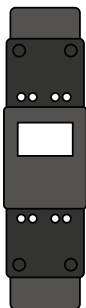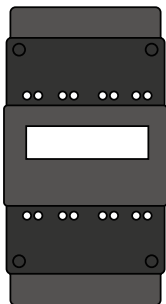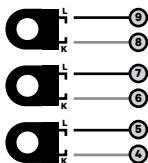

A. 1-Phase < 100A   **B.** 3-Phase < 65A   **C.** 1 - Phase < 80A

Pulsar Plus
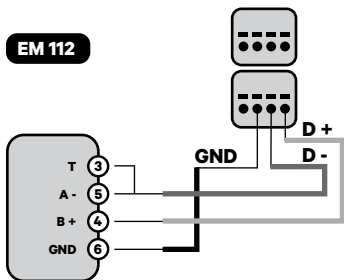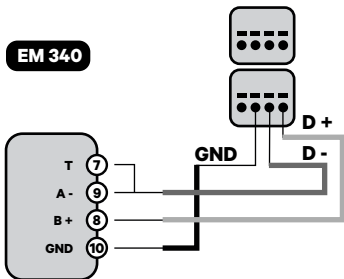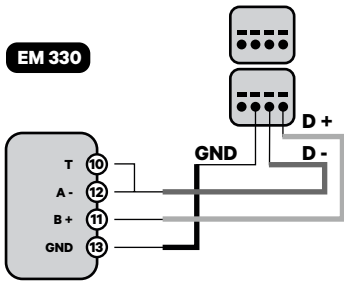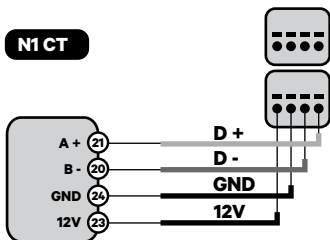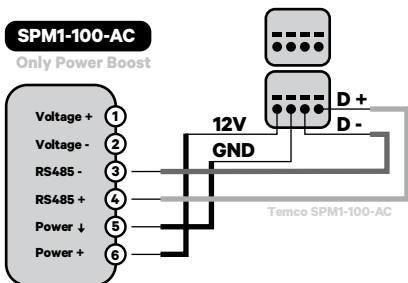
EM 112

T	3	
A -	5	
B +	4	
GND	6	

GND
D +
D -

EM 340

T	7	
A -	9	
B +	8	
GND	10	

GND
D +
D -

Current Direction

EM 330

L	9
K	8
L	7
K	6
L	5
K	4

T	10	
A -	12	
B +	11	
GND	13	

GND
D +
D -

N1 CT

A +	21	D +
B -	20	D -
GND	24	GND
12V	23	12V

SPM1-100-AC
Only Power Boost

Voltage +	1	
Voltage -	2	D +
RS485 -	3	D -
RS485 +	4	12V
Power ↓	5	GND
Power +	6	

Temco SPM1-100-AC

Pro MOD2

A +	10	D +
B -	11	D -
	12	
	13	
	18	
	19	
	20	
	21	

Pro 380 MOD

A +	22	D +
B -	23	D -

Commander 2

EM 112

T	3
A -	5
B +	4
GND	6

GND
D +
D -

EM 340

T	7
A -	9
B +	8
GND	10

GND
D +
D -

Current Direction

EM 330

L	9
K	8
L	7
K	6
L	5
K	4

T	10
A -	12
B +	11
GND	13

GND
D +
D -

N1 CT

A + 21 — D +
B - 20 — D -
GND 24 — GND
12V 23 — 12V

SPM1-100-AC

Only Power Boost

Voltage + 1
Voltage - 2
RS485 - 3 — 12V — D +
RS485 + 4 — GND — D -
Power ↓ 5
Power + 6

Temco SPM1-100-AC

Pro MOD2

A + 10 — D +
B - 11 — D -
12
13
18
19
20
21

Pro 380 MOD

A + 22 — D +
B - 23 — D -

Copper SB

EM 112

T 3
A - 5
B + 4
GND 6

GND
D +
D -

EM 340

T 7
A - 9
B + 8
GND 10

GND
D +
D -

Current Direction

EM 330

L 9
K 8
L 7
K 6
L 5
K 4

T 10
A - 12
B + 11
GND 13

GND
D +
D -

N1 CT

A +	21	D +
B -	20	D -
GND	24	GND
12V	23	12V

SPM1-100-AC

Only Power Boost

Voltage +	1	
Voltage -	2	D +
RS485 -	3	D -
RS485 +	4	12V
Power ↓	5	GND
Power +	6	

Temco SPM1-100-AC

Pro MOD2

A +	10	D +
B -	11	D -
	12	
	13	
	18	
	19	
	20	
	21	
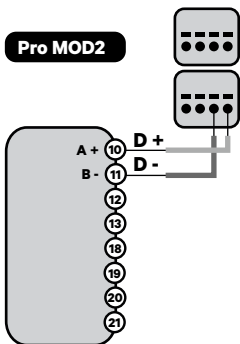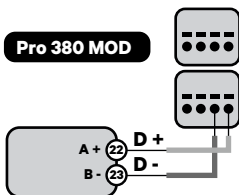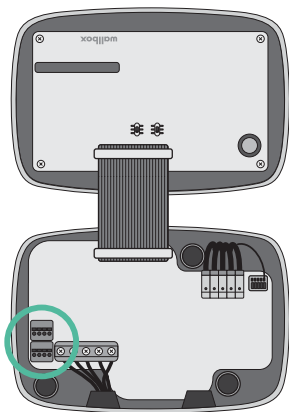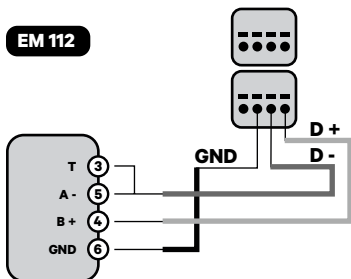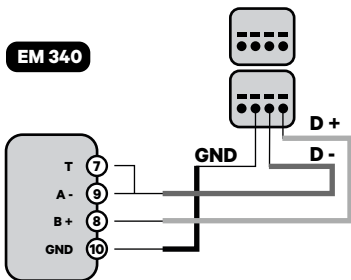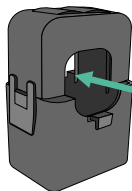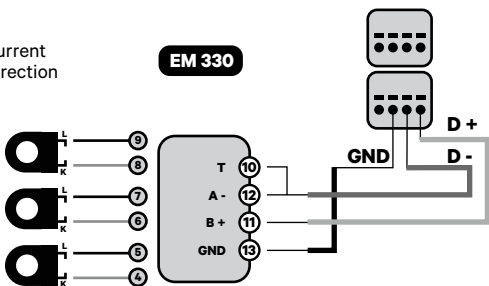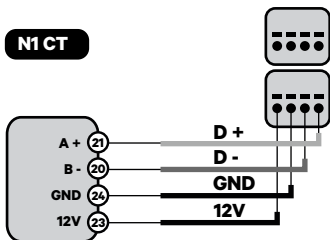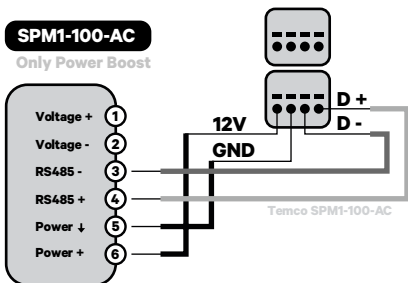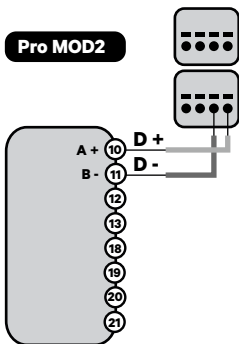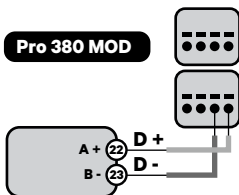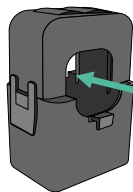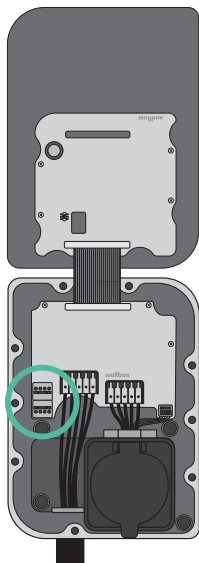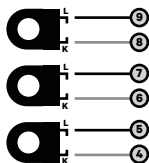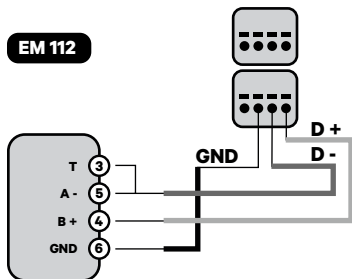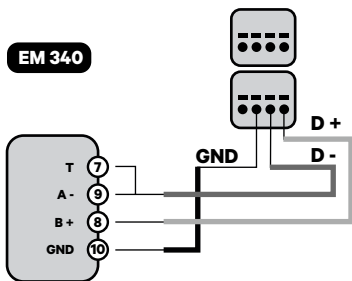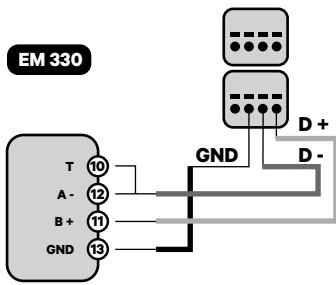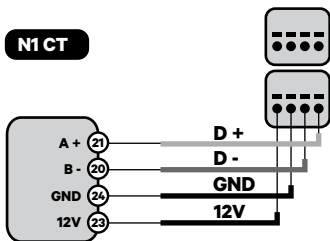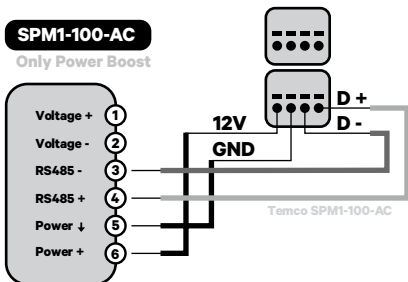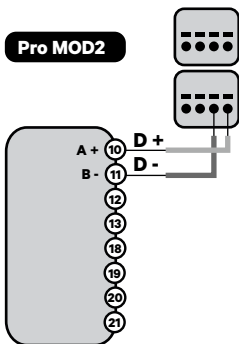
Pro 380 MOD

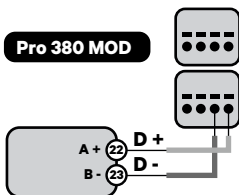|		
A +	22	D +
B -	23	D -

Configuration

Power Boost

Follow these steps to configure the **Power Boost** functionality.

Eco-Smart

Follow these steps to configure the **Eco-Smart** functionality.

support.wallbox.com