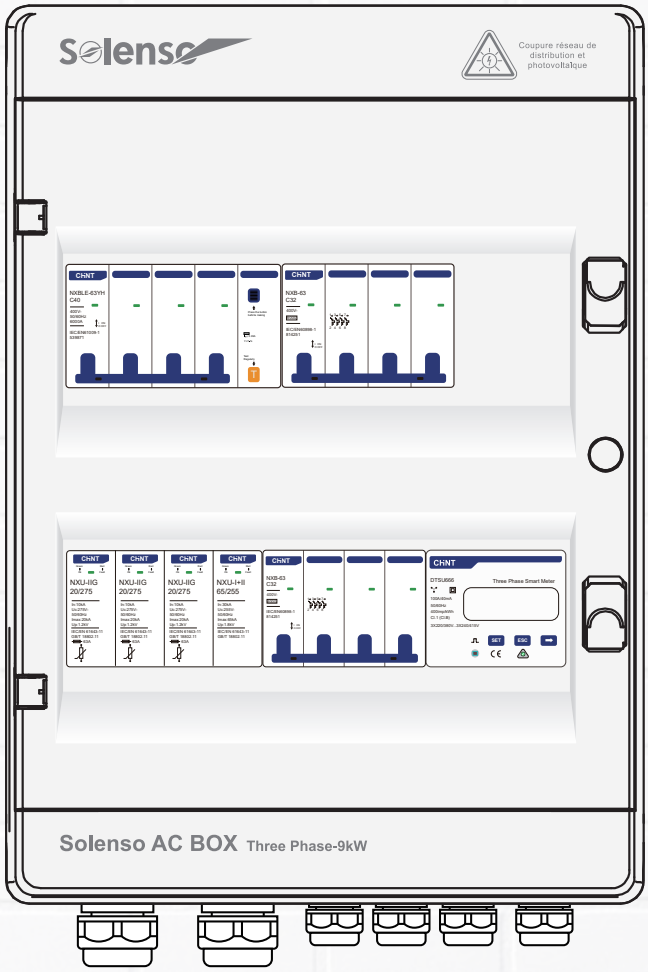
THE BRAINWAVE FACTORY



USER MANUAL

AC BOX-
Three Phase-9kW

AC Box-T9

Region : Europe 2025V1.2
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1. Terminals Introduction

1.1 Read This First

This manual includes important instructions for installing and maintaining the Solenso AC Box.

1.2 Safety

Instructions

Symbol	Usage
	Indicates hazardous situations that can result in deadly electric shock hazards, other serious physical injuries, or fire hazards.
	Indicates directions that must be fully understood and followed in their entirety to avoid potential safety hazards including equipment damage or personal injury.
	Indicates that the described operation must not be carried out. The reader should stop, use caution, and fully understand the operations explained before proceeding.

- Note that only professionals may install or replace AC Box.
- Do not try to repair the AC Box without approval from Solenso. If the AC Box is damaged, send the AC Box back to your installer for repairing/replacement. Disassembling the AC Box without approval from Solenso will invalidate the remaining warranty period.
- Read all instructions and warnings on the technical specifications carefully.
- Do not use Solenso products in a way that is not suggested by the manufacturer. Doing so may cause death or injury to persons or damage to the equipment.

1.3 User

This manual is intended for use by professional installation and maintenance personnel only.

1.4 Support and Contact Information

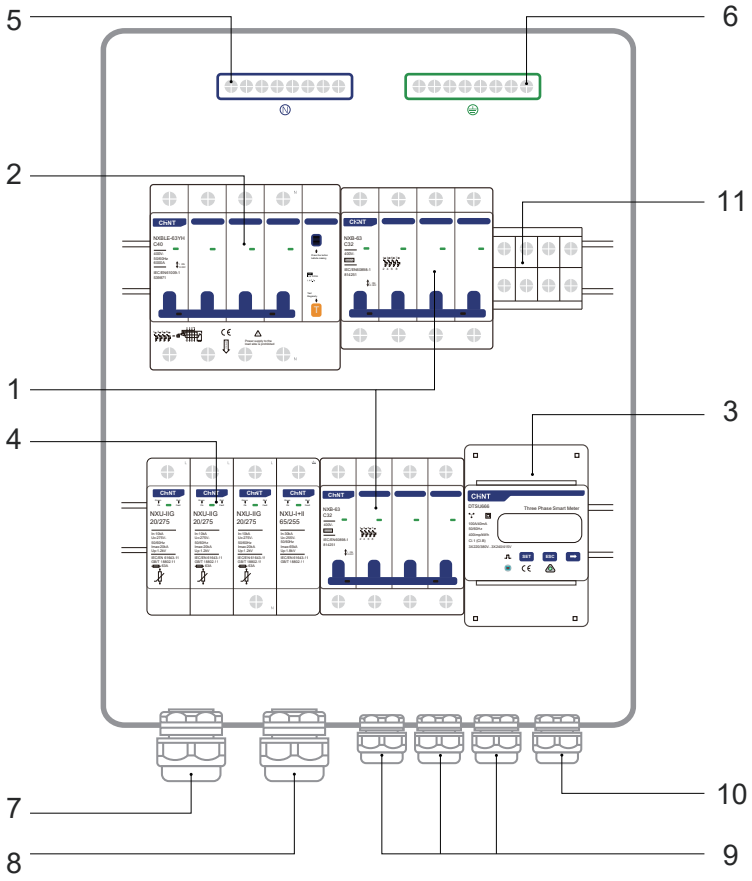
If you have technical queries concerning our products, contact your system installer or distributor.
If further support is required, contact Solenso' support at this link.

- **https://www.solenso-power.com / www.solenso-global.com**
- **Solenso Technical Service Center: contact@solenso.pro / afterservice@solenso-global.com**

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2. Inside of AC Box

Open the door of the AC Box and refer to the following figure and table for pre-installed components in the AC Box.



	Item	Model	Description
1	Breaker	NXB-63 4P C32A	Protecting line security
2	RCD	NXBLE-63YH 4P C40A 30mA	Protection of leakage safety
3	Meter	DDSU666	Collection of electrical data
4	SPD	NXU-Ⅱ G 20kA/275V 3P+N	Lightning surge protection
5	Neutral Wire Terminal Block	/	Used to connect to the Neutral Wire
6	Grounding terminal block	/	Used to connect to the ground
7	PV port	/	Used to connect to the Microinverters
8	Grid port	/	Used to connect to the Grid
9	CT inteface	/	Used to connect to the CT
10	RS485 interface	/	Used to connect to the DTU
11	Feed through terminal blocks	/	Used to connect the grid side cable

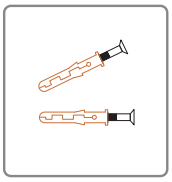
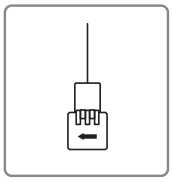
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3. Installation

3.1 Prepare for Installation

Check the Items in the Package

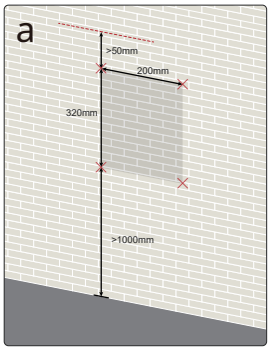
Please make sure that the following items are included in the package before installation.

	Item	Model	Description
	Wall anchors and screws	M4	Mount the combiner on the wall
	Waterproof glands	/	For waterproofing of case holes
	CT	/	Measure electricity in the home
	Quick Installation Guide	/	Quick instructions for installation

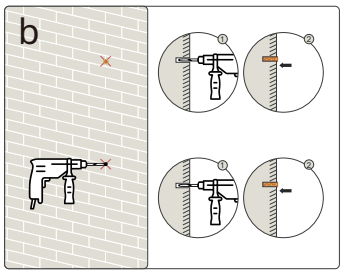
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3.2 Mount the AC Box

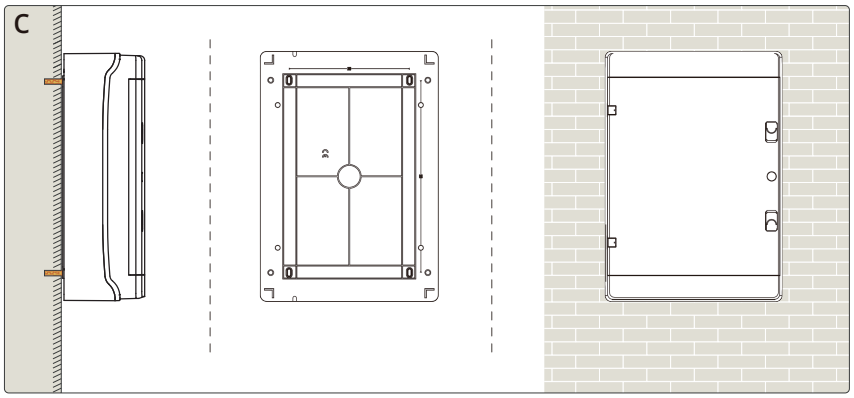
a. Use a tape measure and make a mark on the wall at least 1,000 mm vertically from the ground. Measure approximately 320mm above the mark and make another mark.Make two more marks 200mm to the right of these two marks.



b. Drill holes in the markers and insert the wall anchors supplied in the package into the holes.



c. Align the four screw holes of the AC Box with the holes you just punched and screw them in.



Note:

Do not install the AC Box in an environment with direct sunlight exposure, unless with a sunshade installed.

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3.3 Wire to the AC Box

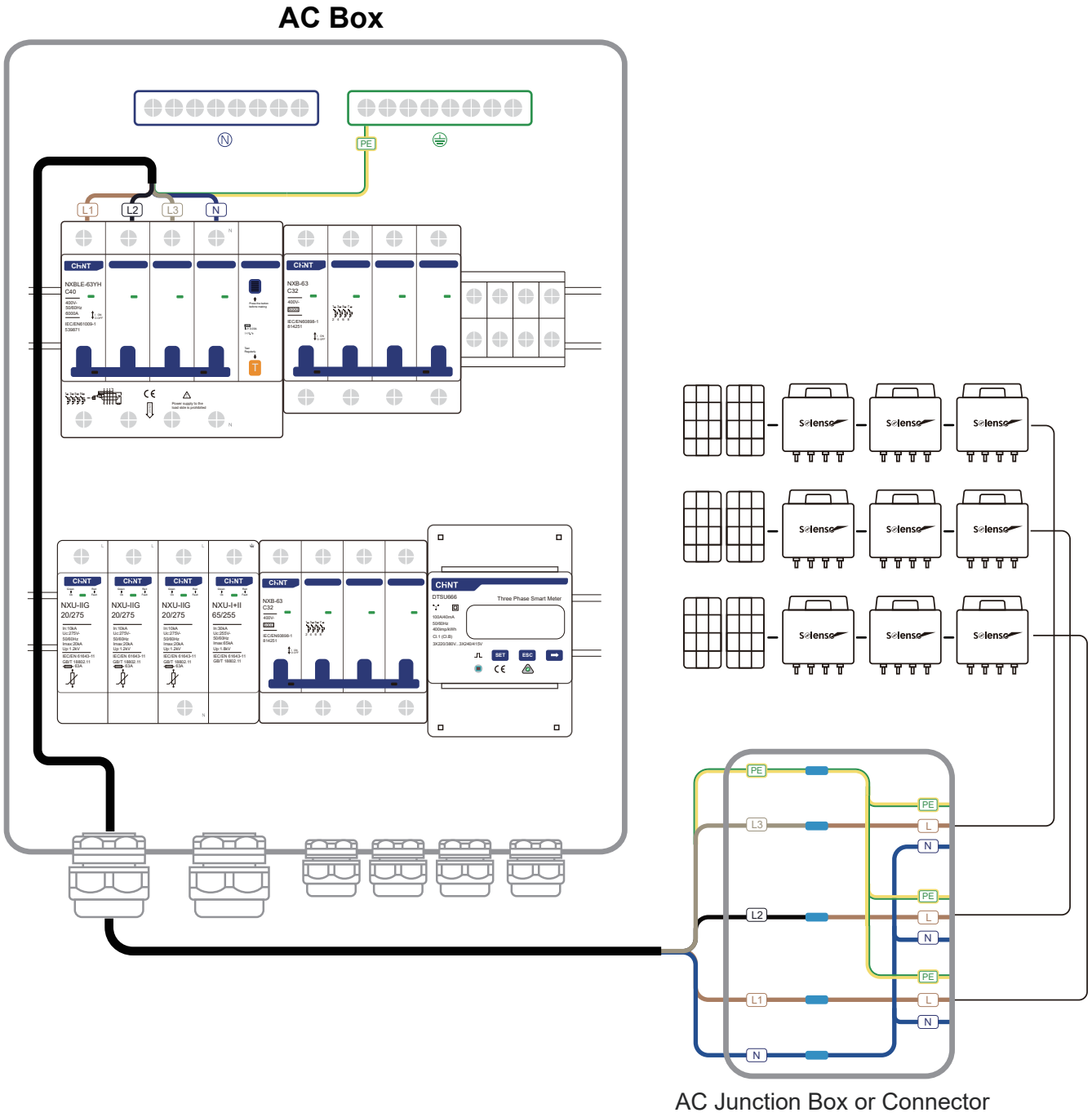
3.3.1 Wire from the PV Branch (Microinverter)

a. Bring in the cables from the micro inverter system circuit through the PV port of the AC Box.

b. Connect the cables (N and L) to the RCD.

c. Tighten the screws with a screwdriver.

Note: To simplify AC wiring, please use a Junction box or Connector to merge the three microinverter output cables into a single five-core cable (L1, L2, L3, N, PE). Ensure that each phase is correctly connected to the corresponding terminal inside the Junction box or Connector.



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3.3.2 Wire from the Distribution Panel (Grid)

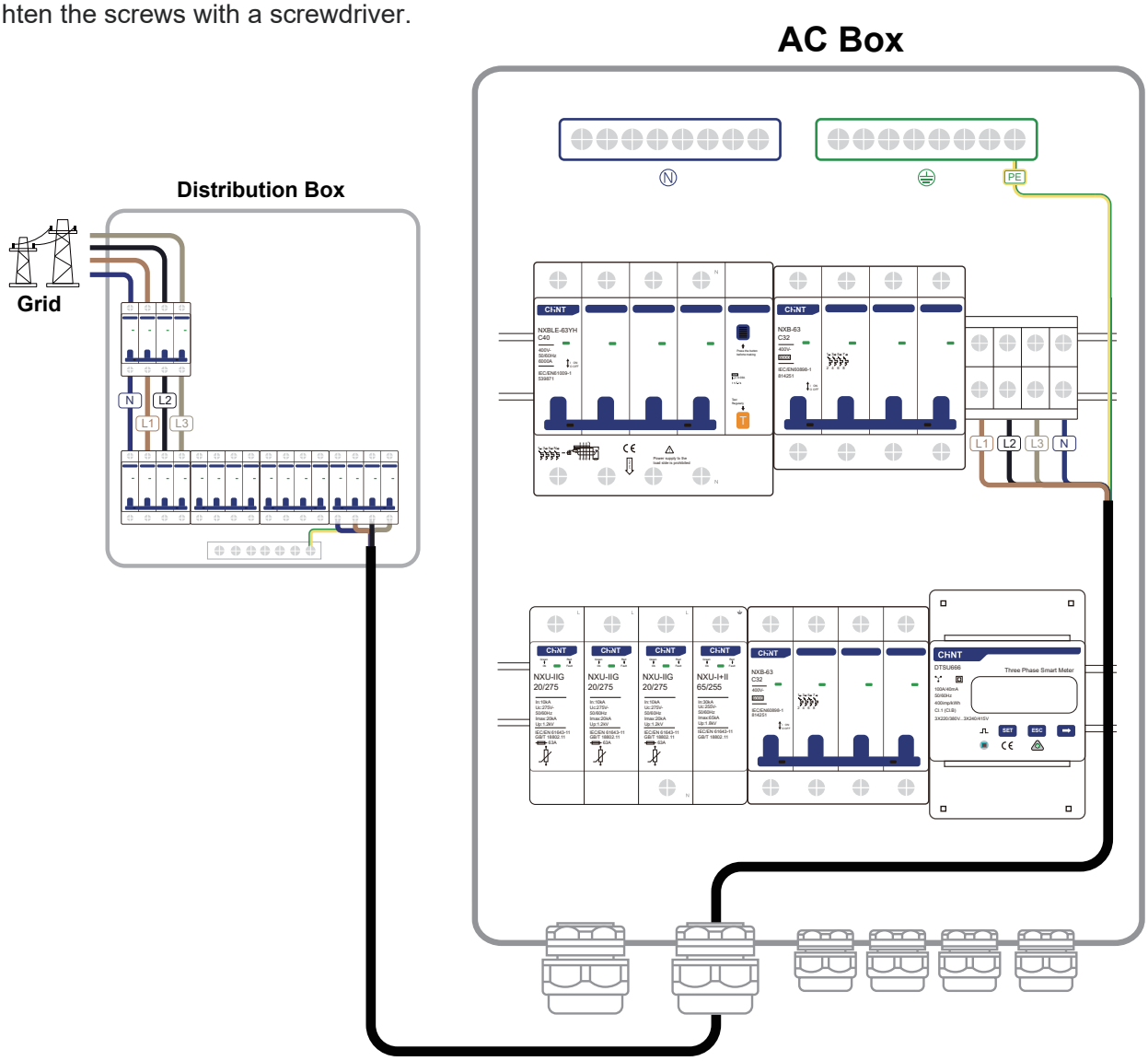
Section A. Wire the power cables

a. Bring in the cables from the distribution panel through the Grid port of the AC Box.

Note: For safety and proper operation, it is recommended to install a 32A, 4P circuit breaker on the distribution box, in conjunction with the AC box.

b. Connect the cables (N and L) to the breaker and connect the ground cable to the PE terminal block as shown.

c. Tighten the screws with a screwdriver.



Note:

- Ensure that the cables (N and L) are correctly connected.
- Ensure that the N cable of the terminal block is connected to the grid neutral line to avoid damaging the devices and voiding the warranty.

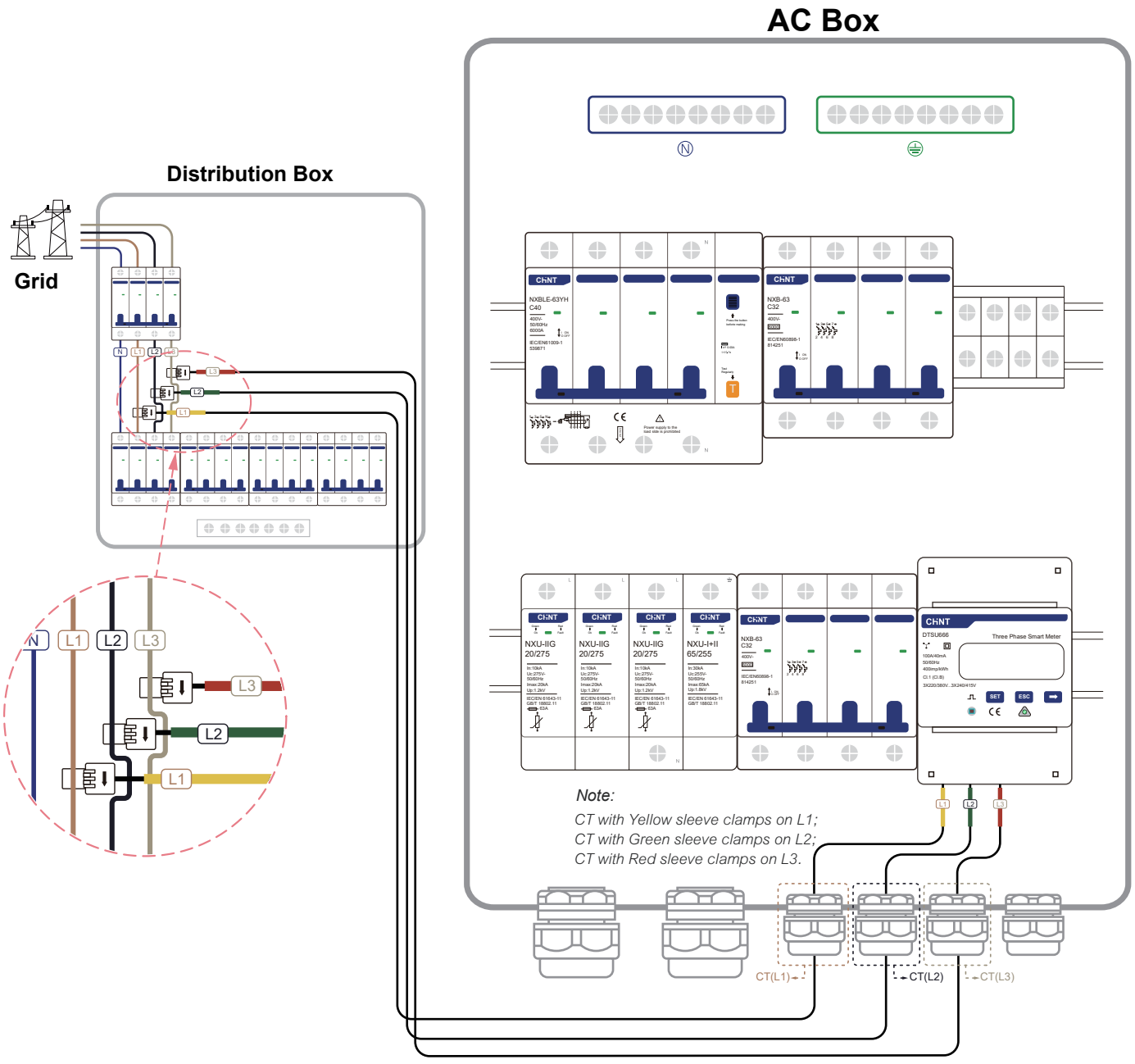
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Section B. Wire the CT

a. Install the CT for electricity metering. You can find the CT in the AC Box.

b. Find the L line of the main breaker in the distribution panel.

c. Clamp the CT on the L line. The CT's direction ➡ must point away from the gird.



Note:

- The CT's direction ➡ must point away from the gird.
- Ensure that the CT is clamped to the L line of the main breaker in the istribution panel. And the colour and order must not be wrong, otherwise the data will be abnormal.

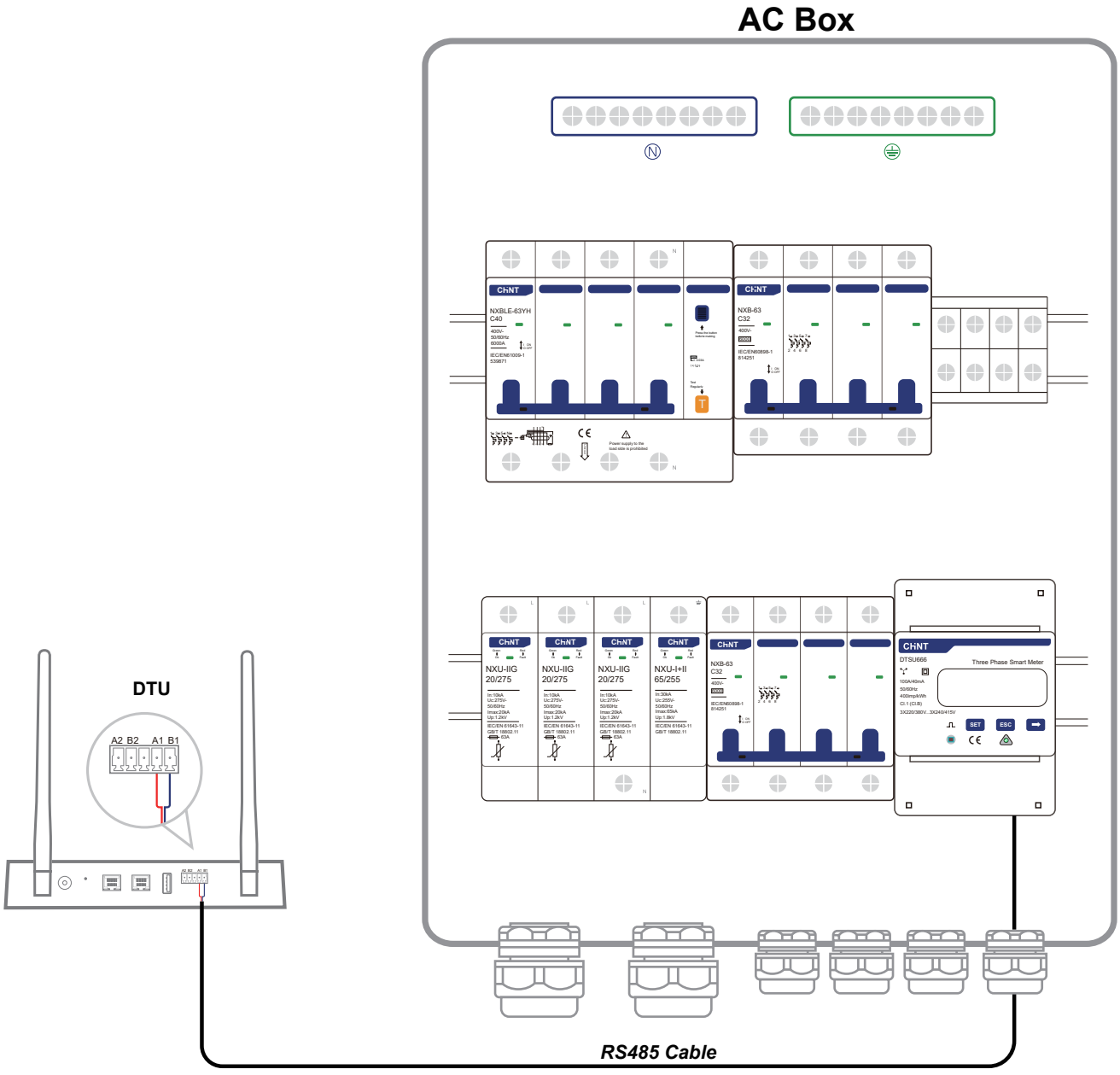
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3.3.3 Wire to the DTU (RS485)

a. Install the meter RS485 cable to the DTU. You can find the cable in the AC Box.

b. Connect the RS485 red cable to the A1 port.

c. Connect the RS485 blue cable to the B1 port.



Note:

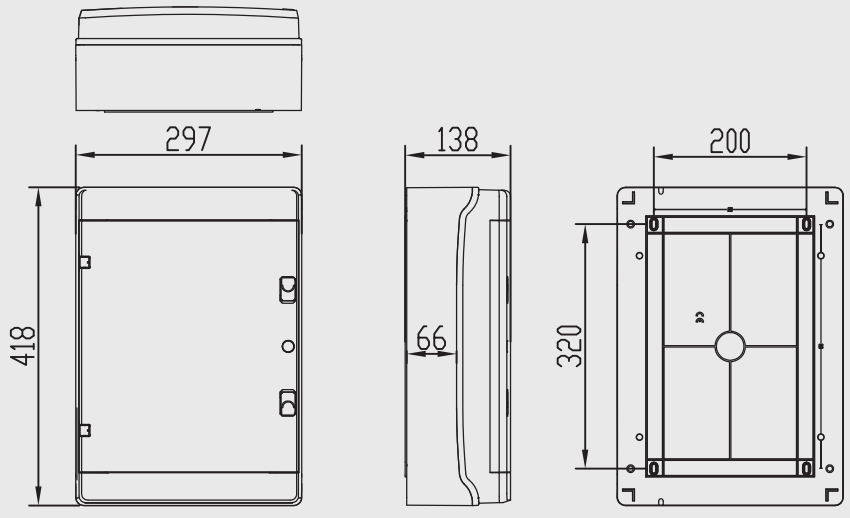
- Ensure that the RS485 cable is connected correctly. Otherwise the meter will go offline.

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4. Technical Specifications

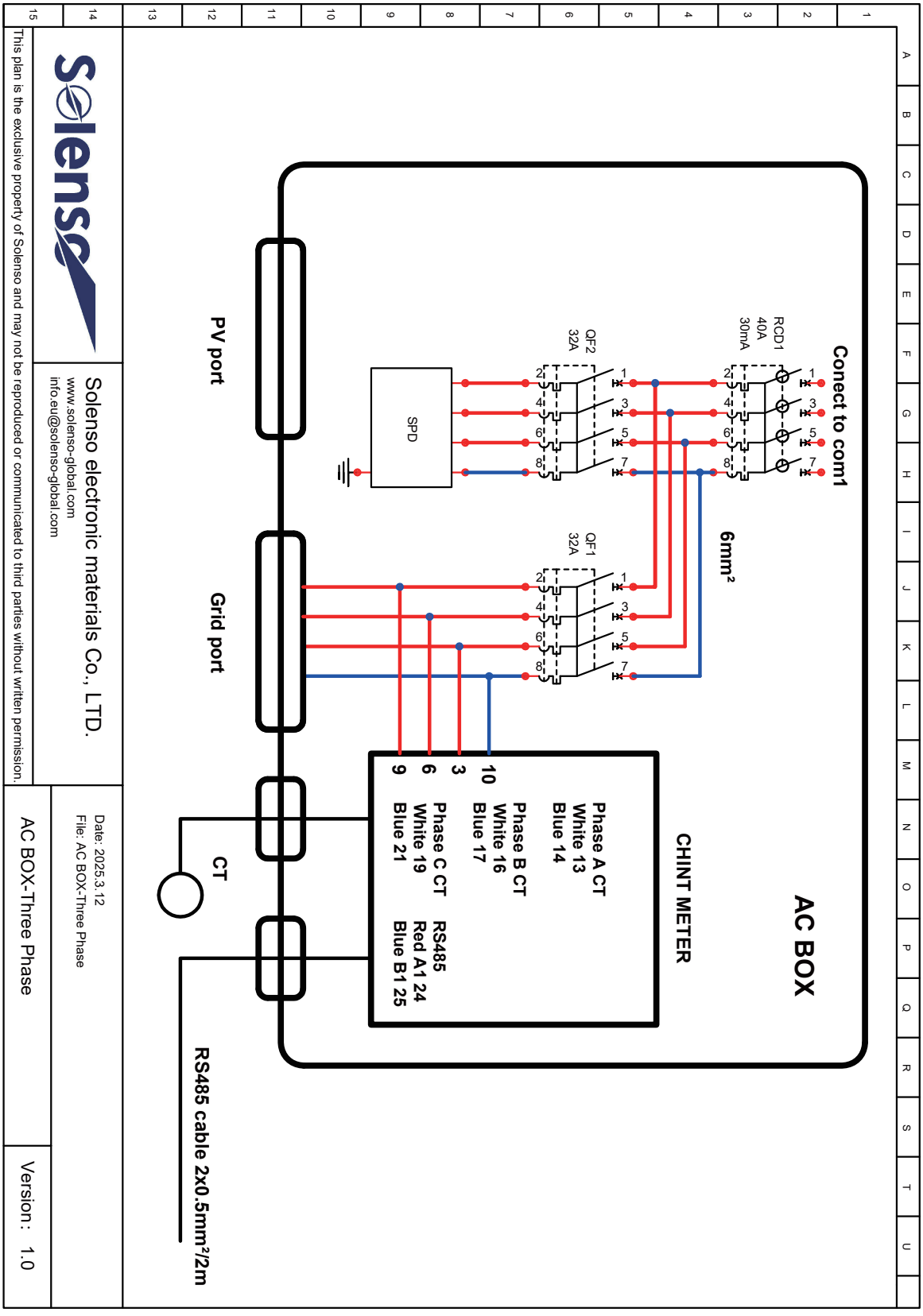
AC Box for applications with nominal voltage 230/400VAC system, in compliance with NF C 15-100.

Model	AC Box-T9
Accessories	
Meter	DTSU666
Breaker	NXB-63 4P C32A
SPD	NXU-Ⅱ G 20kA/275V 3P+N
RCD	NXBLE-63YH 4P C40A 30mA
CT	Accurate up to 1.0%
Electrical Specifications	
Maximum input power	9000W
Maximum continuous current rating (Input per phase)	14A
Maximum branch circuit breaker rating (input)	32A
System voltage	230/400 VAC, 50Hz
Mechanical Data	
Dimensions (L × W × H)	418*297*138mm
Weight	3.5kg
Ambient temperature range	-35~70°C
Protective rating（IP）	IP65
Cooling	Natural convection



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Appendix: Wire Diagram



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