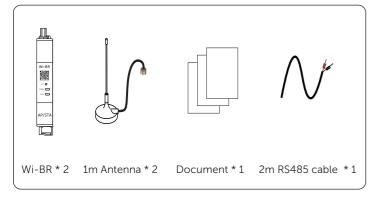


2 Scope of Delivery

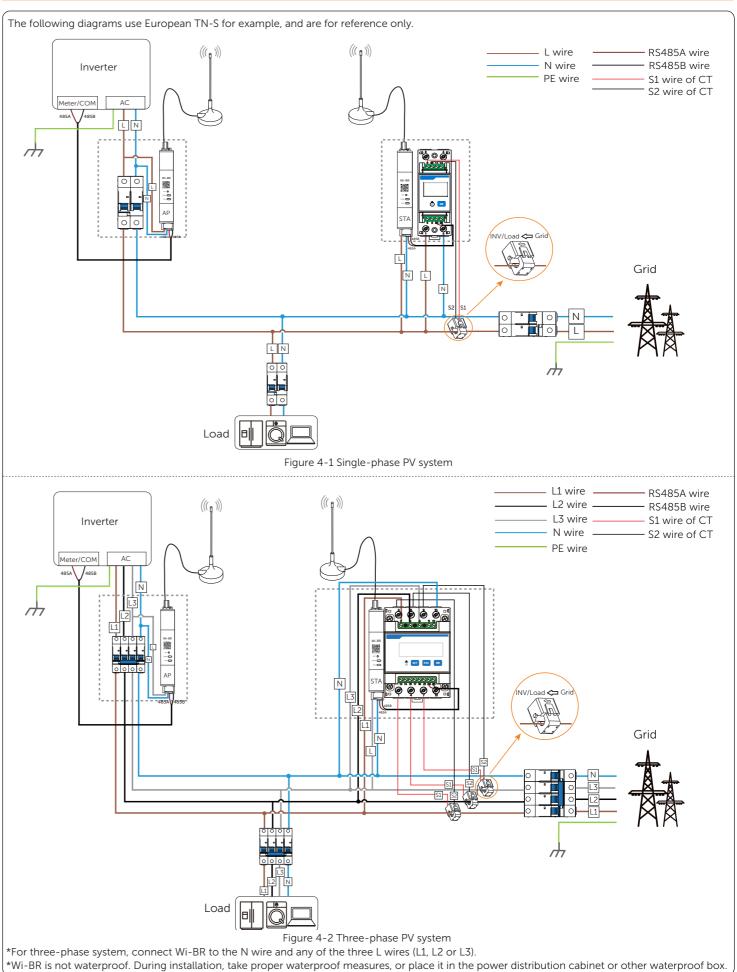


3 Labels and Technical Data

	Table	•	
Label	Description		
CE	Conformity to EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU		
X	Conformity to 2012/19/EU (WEEE directive)		
RF Exposure Information	This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.		
	Tab	le 3-2 Specification	
Model		Wi-BR	
Working method		AP / STA	
Communication terminal		RS485 * 1 (for each model)	
Protocol		IEEE 802.11ah	
Phase voltage		85 Vac-277 Vac	
Max. power consumption		2 W	
Operating temperature		-25°C to +55°C	
Radio frequency		863-868 MHz: 13.709 dBm (Max EIRP)	
Dimensions		18 mm × 98 mm × 66 mm	
Mounting type		DIN rail	
Ingress protection rating		IP20	
Altitude		<2000 m	

*External wireless interference might impact the device transmission distance and overall performance. Please be advised.

4 Typical System Wiring



5 Compatible Inverters and Pin Definition

Inverter series	Terminal type	Pin No.	Pin definition
X1-HYB LV	СОМ	4	485A
XI-HID LV		5	485B
X1-AC	Meter	7	485A
AI-AC	ĕ U	8	485B
 X1-HYB G4 X1-FIT G4 X1-IES X3-HYB G4 		4	485A
 X3-FIB G4 X3-FIT G4 X3-IES 	Meter/CT	5	485B
• X1-MINI G4	сом/ст	4	485A
• X1-BOOST G4		5	485B
	COMCT	4 / 11	485A
X1-SMART G2		5 / 12	485B
X3-ULTRA		4	485A
		5	485B
X3-MIC G2		4	485A
		5	485B
X3-PRO G2	(a)	5	485A
	RS488	6	485B
• X3-MEGA G2		7	485A
• X3-FORTH		8	485B

Note: Two terminals of different types are available for Wi-BR on X1-Smart G2, and the pins in the same box are a pair.

6 Mounting

Step 1: Connect the cables based on the system wiring diagram, and then mount the Wi-BRs and meter to the 35 mm DIN rails.

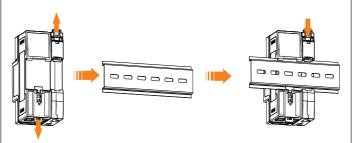
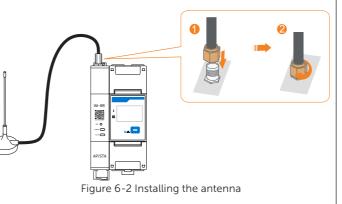
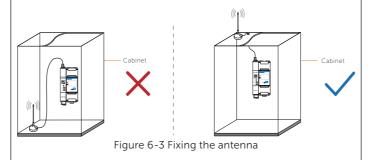


Figure 6-1 Mounting Wi-BR

Step 2: Connect the antenna to the Wi-BR through the antenna terminal.



Step 3: Fix the antenna outside the power distribution cabinet.



NOTICE!

Please fix the antenna on the top of the cabinet. Otherwise, it may interfere in the signal transmission inside the cabinet.

7 Configuration

		NO	TICE!		
		he cables for ver supply in t	the Wi-BR, make sure that you he circuit.		
	Connect the Wi-BRs, inverter, meter and CT based on the system wiring diagram.				
Step 2: P	ower on th	e Wi-BRs.			
ai	Check if the RUN and COMM indicator lights of both the AF and STA models are solid green. If not, see 8 Troubleshootir for solution.				
b		ne AP and new	dd a STA model, press the Reset v STA model at the same time for		
3 Indica	ator De	scription			
~					
The Wi-E	Rs are alre		TICE! fore delivery. The AP model enter		
the pairir	ng mode at pairing aft	eady paired be fter you press er 1 minute if			
the pairir	ng mode at pairing aft	eady paired be fter you press er 1 minute if	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected.		
the pairir then exit	ng mode af pairing aft Table 8-	eady paired be 'ter you press er 1 minute if 1 Indicator sta	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected. tus and description		
the pairir then exit	ng mode af pairing aft Table 8-	eady paired be iter you press er 1 minute if 1 Indicator sta Status	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected. tus and description Description Normal power supply, RS485 cable connection and antenna		
the pairir then exit Indicator	ng mode al pairing aft Table 8- Color	eady paired be fter you press er 1 minute if 1 Indicator sta Status Solid green Flashing	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected. tus and description Description Normal power supply, RS485 cable connection and antenna connection Abnormal RS485 cable connect between AP and inverter, or		
the pairir then exit Indicator	ng mode al pairing aft Table 8- Color	eady paired be fter you press er 1 minute if 1 Indicator sta Status Solid green Flashing green	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected. tus and description Description Normal power supply, RS485 cable connection and antenna connection Abnormal RS485 cable connect between AP and inverter, or between STA and meter No power supply		
the pairir then exit Indicator RUN	ng mode al pairing aft Table 8- Color	eady paired be fter you press er 1 minute if 1 Indicator sta Status Solid green Flashing green Off	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected. tus and description Description Normal power supply, RS485 cable connection and antenna connection Abnormal RS485 cable connect between AP and inverter, or between STA and meter No power supply		
the pairir then exit Indicator	ng mode al pairing aft Table 8- Color	eady paired be fter you press er 1 minute if 1 Indicator sta Status Solid green Flashing green Off Solid green Flashing green	fore delivery. The AP model enter the Reset button for 3 seconds, a no STA is detected. tus and description Description Normal power supply, RS485 cable connection and antenna connection Abnormal RS485 cable connect between AP and inverter, or between STA and meter No power supply AP and STA paired successfully. Transmitting data between AP and		

9 Troubleshooting

Table 9-1 Possible problems and suggestions				
Problem	Reason	Solution		
No indicator lights up after powered on.	Abnormal power supply	Check and reconnect the power cables.		
The RUN indicator flashes green.	Connection between the Wi-BR and the inverter or meter failed.	Check if the RS485 cables are normal. If yes, reconnect them; if not, change the cables and then reconnect them.		
The COMM indicator is solid red.	AP and STA failed to pair.	Press the Reset button on the AP model and STA model for 3 seconds in sequence to pair them again.		