Open Energy for All



Single-phase Hybrid Inverter

Quick Installation Guide

HIS-3L-G3S
HIS-3.6L-G3S
HIS-4.6L-G3S
HIS-5L-G3S
HIS-6L-G3S
HIS-8L-G3S

1 General Declaration

- The information in this quick installation guide is subject to change due to product updates or other reasons.
- This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions here are for guidance only.
- Before installations, read through the quick installation guide and the user manual to learn about the product and the precautions.
- All installations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Check the deliverables for correct model, complete contents, and intact appearance. Contact the manufacturer if any damage is found or any component is missing.
- Use insulating tools and wear personal protective equipment when operating the equipment to ensure personal safety. Wear anti-static gloves, clothes, and wrist strip when touching electron devices to protect the inverter from damage. The manufacturer shall not be liable for any damage caused by static electricity.
- Strictly follow the installation, operation, and configuration instructions in this guide and user manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions.
- All cables in this article are copper cables.
- EU Declaration of Conformity

  Hoymiles Power Electronics Inc. hereby declares that Hoymiles Energy Storage Inverter (model: HIS-3/3.6/4.6/5/6/8L-G3S) is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2011/65/EU, (EU) 2015/863, and 2012/19/EU.

  Hoymiles Power Electronics Inc. hereby declares that Hoymiles Data Transfer Stick (model: DTS-WL-G3) is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU) 2015/863.

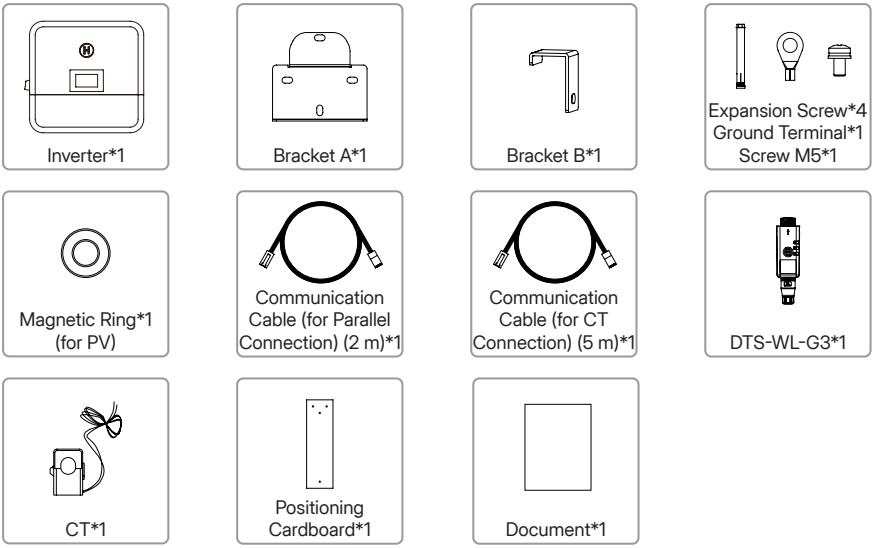
  The original EU Declaration of Conformity may be found at ***https://www.hoymiles.com***.

  Hoymiles Energy Storage Inverter works with Hoymiles Data Transfer Stick. Hoymiles DTS described in this document is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

  OPERATING FREQUENCY (the maximum transmitted power): 2412 to 2472 MHz (<20 dBm).

	Caution Failure to observe any warnings may result in injury.		UKCA mark
	Danger to life due to high voltage.		Do not dispose of the inverter as household waste.
	Hot surface Burn danger due to hot surface that may exceed 60 °C.	RoHS	RoHS mark
	After the inverter is turned off, wait for at least 10 minutes before opening the inverter or touching live parts.		Ukrainian certification mark
	CE mark		Observe the documentation.

2 Packing List

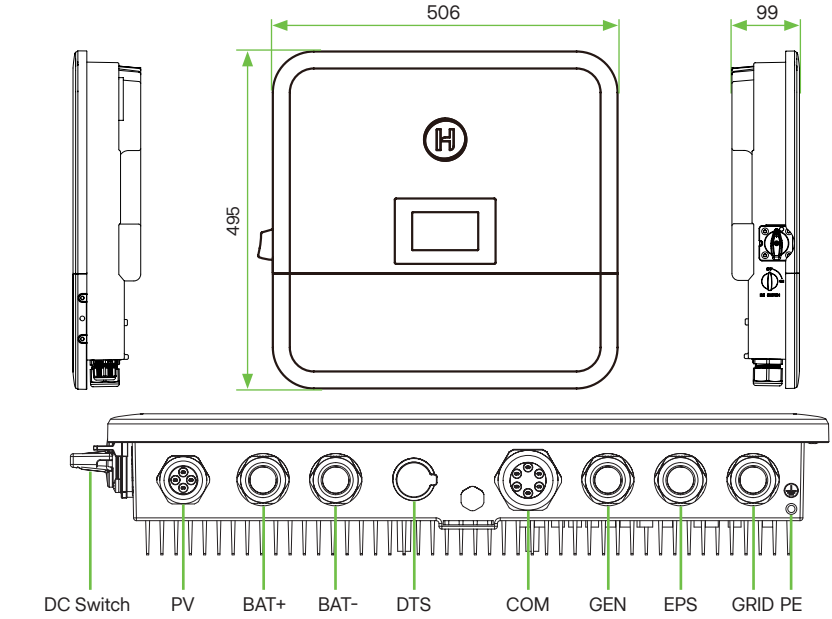


Note: *Magnetic ring is not included in some batches. Please refer to the actual product received.*

3 Product Appearance

3-6 kW

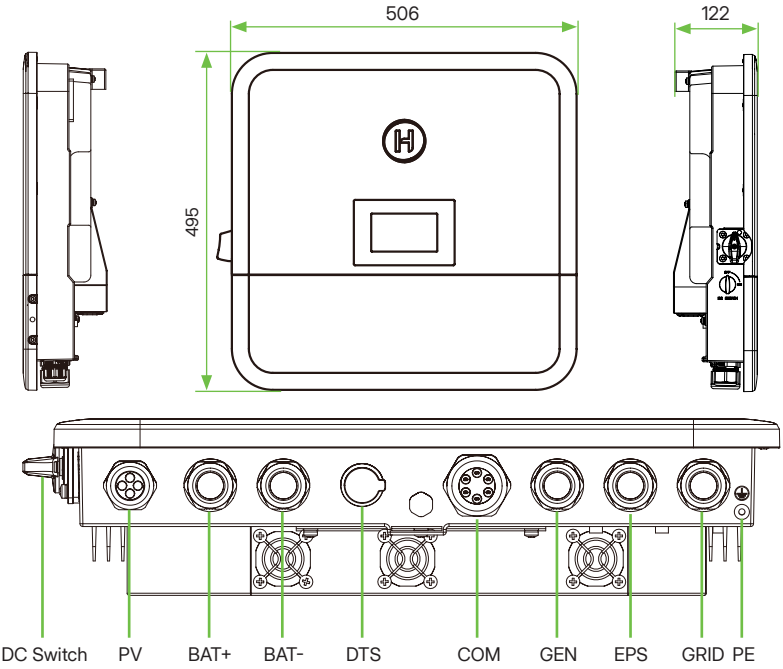
Unit: mm



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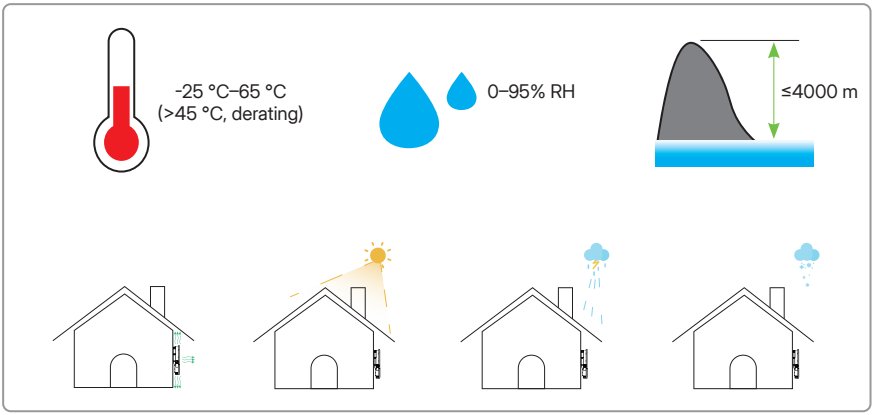
8 kW

Unit: mm

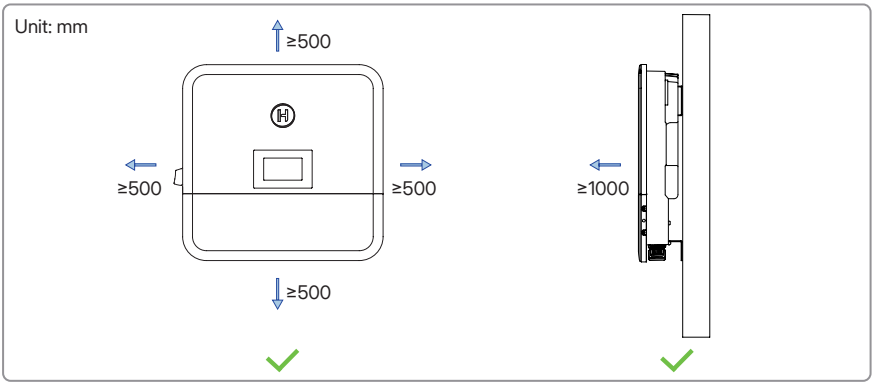


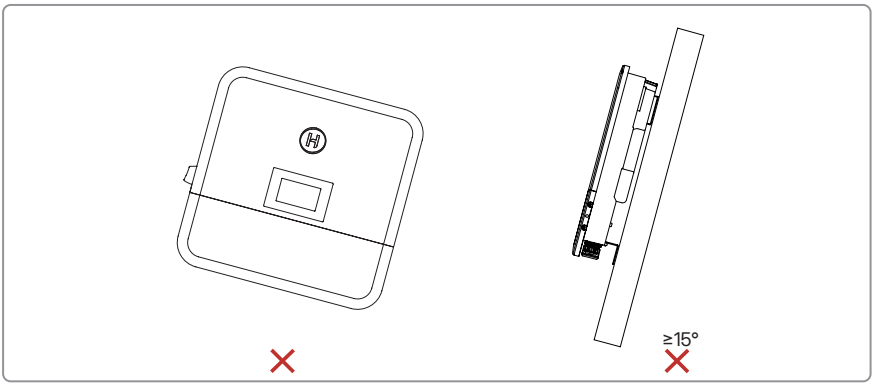
4 Installation Instructions

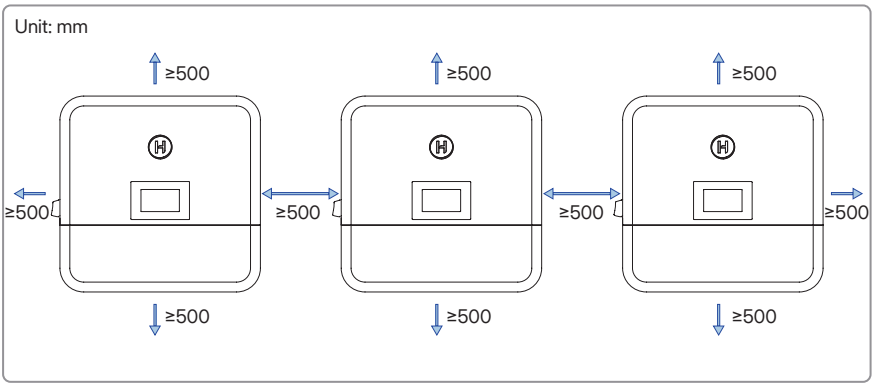
Environmental Requirements



Space Requirements



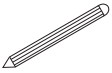


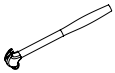


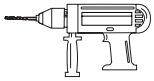
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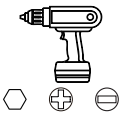
Installation Tools

The following tools are recommended in the installation process, and other auxiliary tools can also be used if necessary.

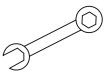

Marker

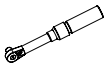

Hammer


Hammer Drill


Electric Screwdriver


Screwdriver

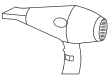

Adjustable Wrench


Torque Wrench


Level


Tape Measure


Multimeter


Heat Gun


Wire Cutter


Wire Stripper


OT Terminal Crimping Tool


Network Cable Crimper

Personal Protective Equipment


Safety Helmet


Protective Goggles


Dust Mask

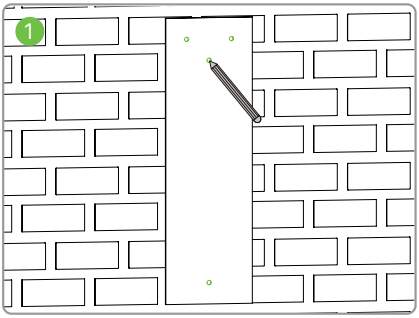

Safety Gloves

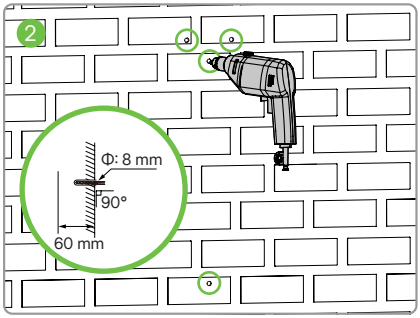

Safety Shoes

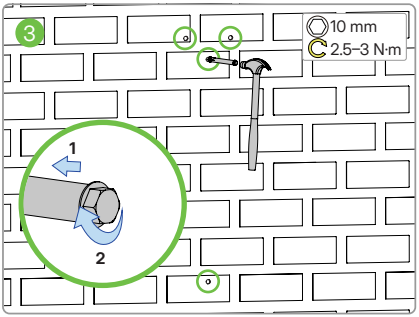
Installation Steps

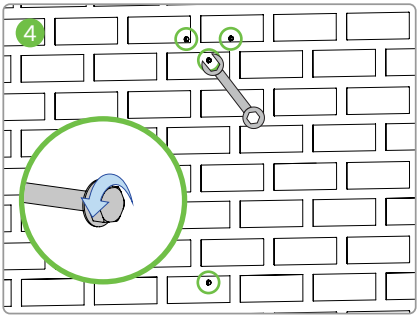
Note:

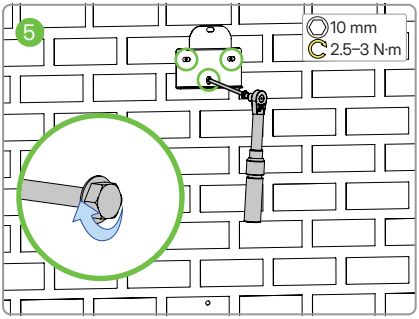
The product illustrations in sections of mechanical installation and electrical connection are all 3-6 kW inverters.

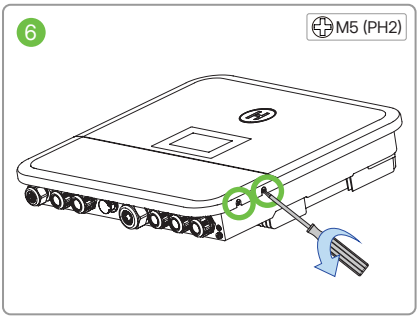


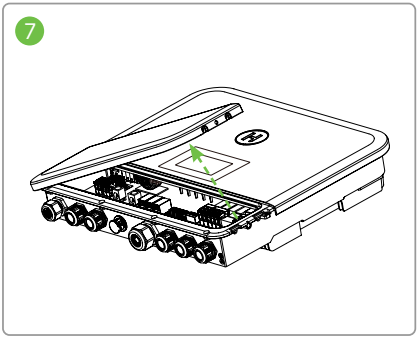


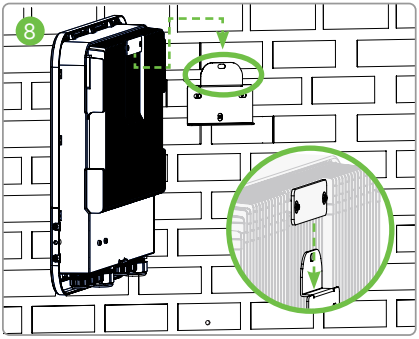




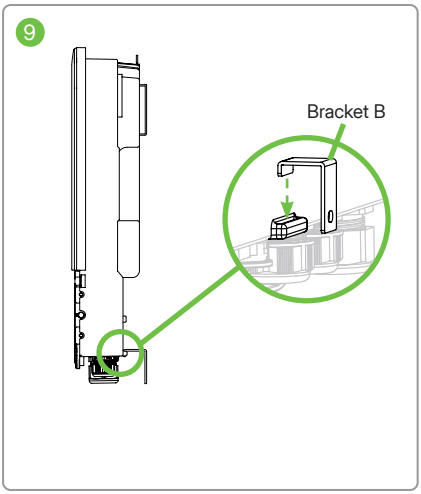


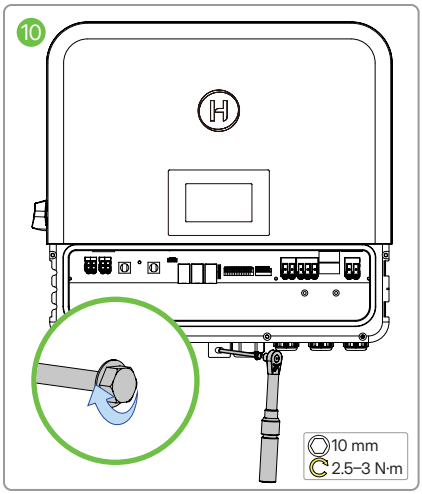


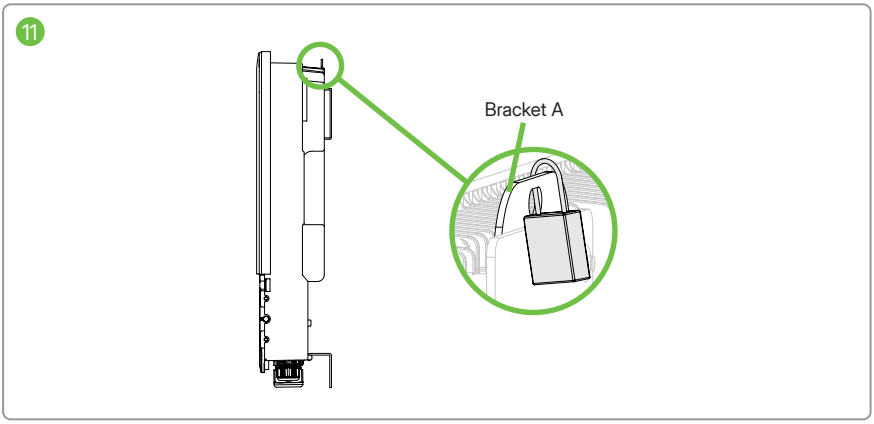




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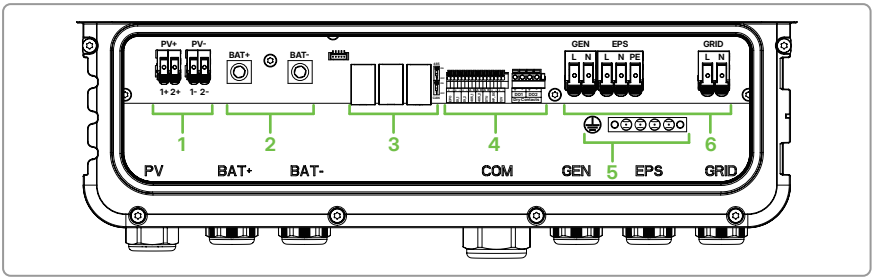




Note:

Step 11 *is optional. Hang a lock on the top of the bracket A if necessary.*

5 Electrical Connection



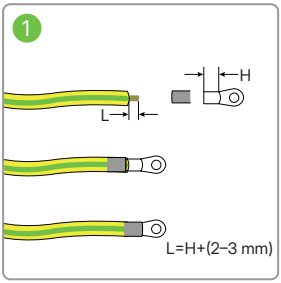
NO.	Description	NO.	Description
1	PV Terminals	4	Communication Terminals (COM2)
2	Battery Terminals	5	Grounding Bar
3	Communication Terminals (COM1)	6	AC Terminals

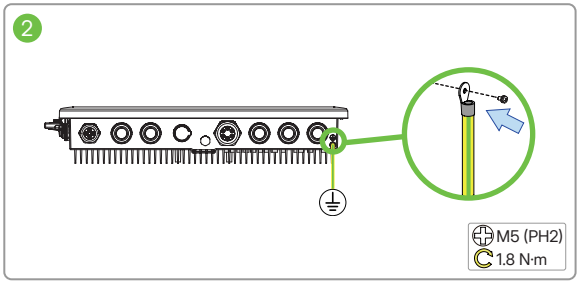
Note:

- *The following data is the cable specification recommended by Hoymiles.*
- *The cables used in actual installation can be larger than the recommended specifications, but cannot be smaller than the recommended specifications. Select the appropriate cables in accordance with local laws and regulations.*
- *To ensure a reliable electrical connection, it is recommended to use crimp terminals when connecting cables to the inverter.*
- *The wiring color code may vary. Please follow local laws and regulations for wiring.*

Ground Cable Connection

Cable (90°C, Copper)	Recommended Specification (mm^2)	Stripping Length (mm)
	HIS-3/3.6/4.6/5/6/8L-G3S	HIS-3/3.6/4.6/5/6/8L-G3S
Ground	10	10

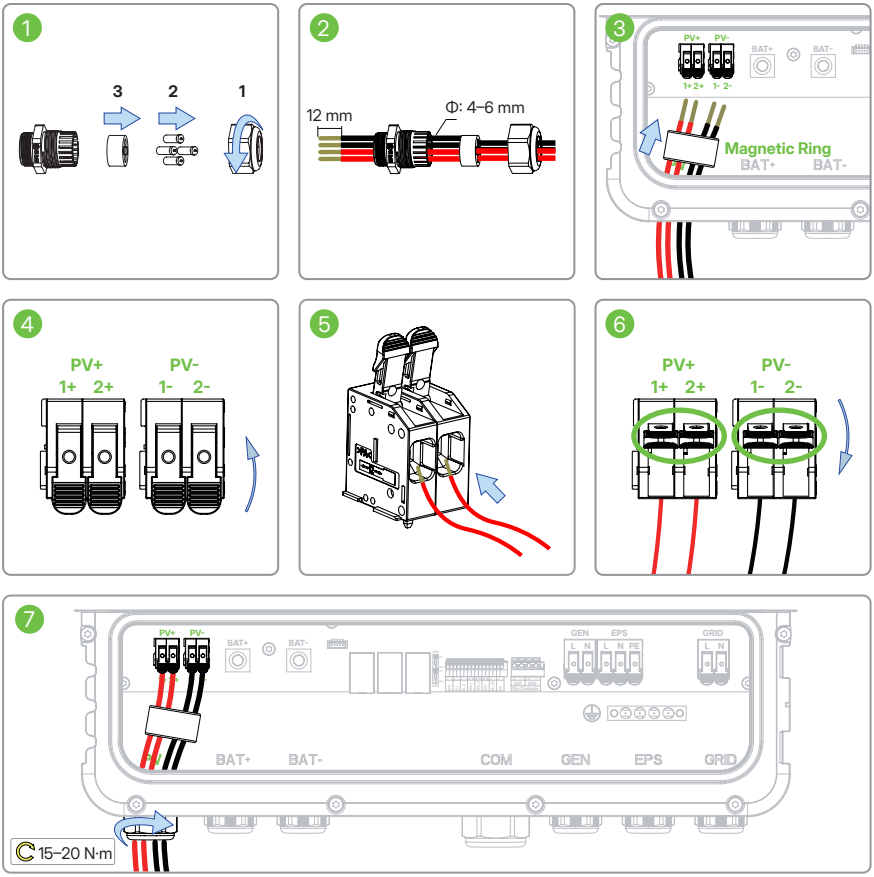




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PV Cable Connection

Cable (90°C, Copper)	Recommended Specification (mm²)	Stripping Length (mm)
	HIS-3/3.6/4.6/5/6/8L-G3S	HIS-3/3.6/4.6/5/6/8L-G3S
PV	4	12

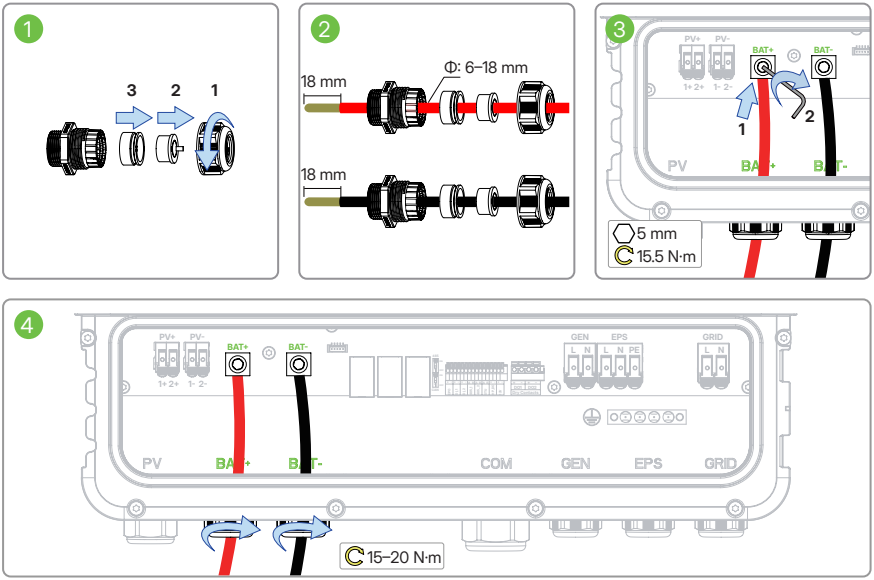


Note:

There are rubber plugs at the bottom of the cable gland. To ensure sealing performance, remove the rubber plugs based on the actual number of cables.

Battery Cable Connection

Cable (90°C, Copper)	Recommended Specification (mm^2)						Stripping Length (mm)
	HIS-3L-G3S	HIS-3.6L-G3S	HIS-4.6L-G3S	HIS-5L-G3S	HIS-6L-G3S	HIS-8L-G3S	HIS-3/3.6/4.6/5/6/8L-G3S
Battery	16–25	25–35	35–50				18



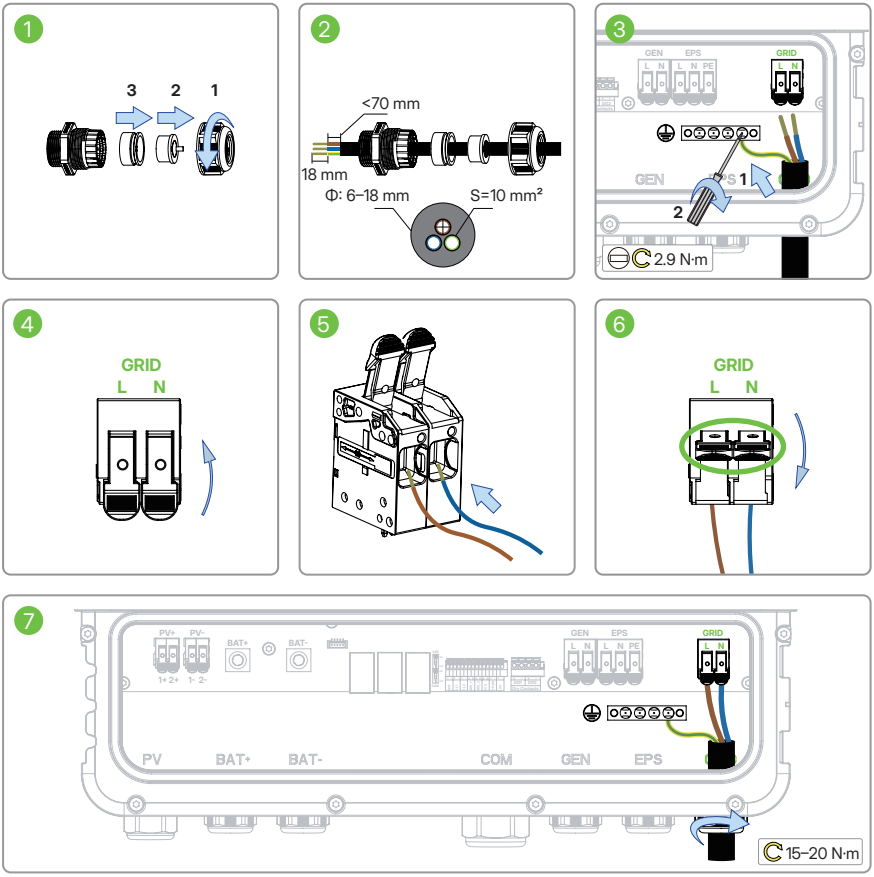
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AC Cable Connection

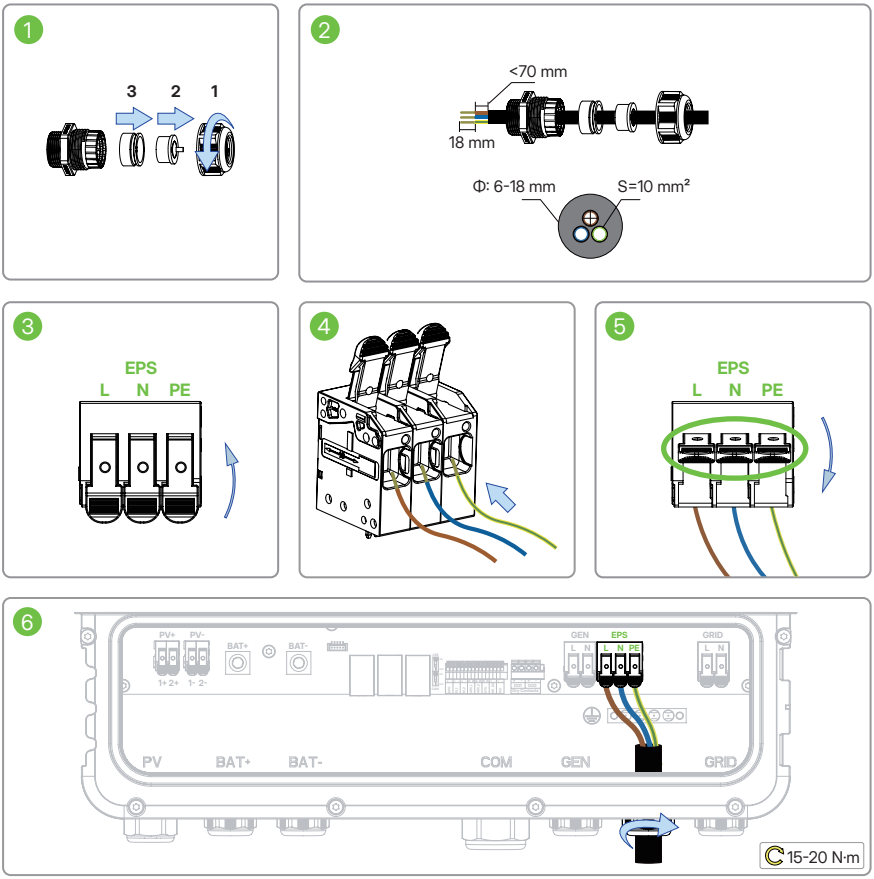
Cable (90°C, Copper)	Recommended Specification (mm^2)	Stripping Length (mm)
	HIS-3/3.6/4.6/5/6/8L-G3S	HIS-3/3.6/4.6/5/6/8L-G3S
GRID/EPS/GEN	10	18

Taking ***HIS-6L-G3S*** as an example:

Grid Connection

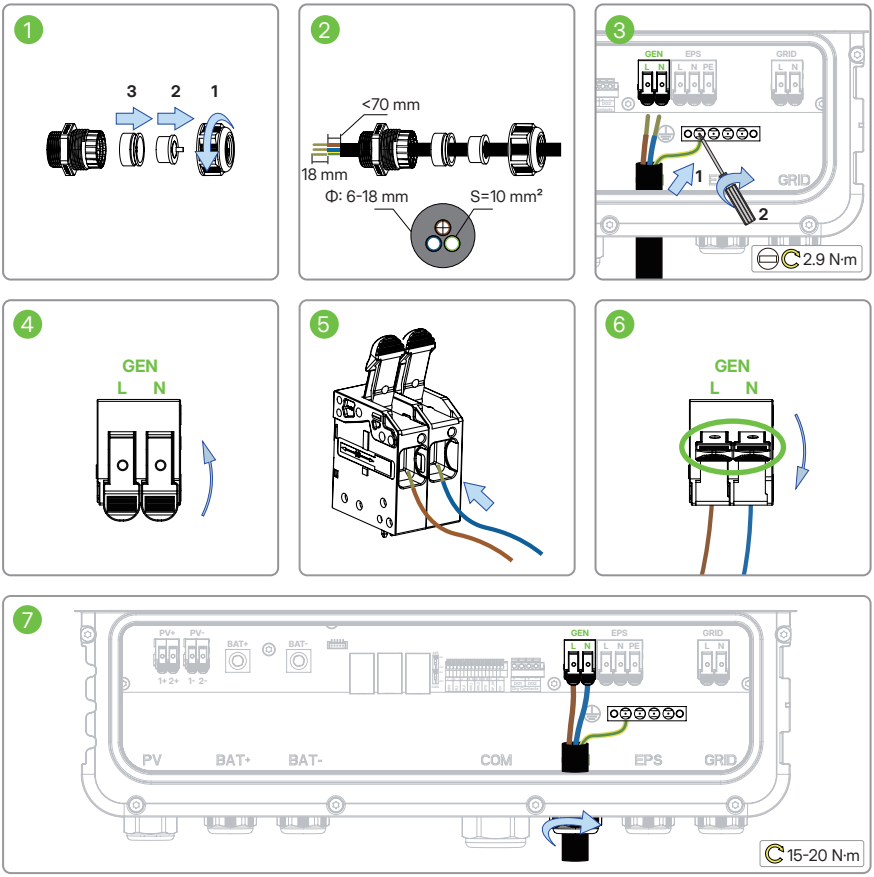


EPS Connection



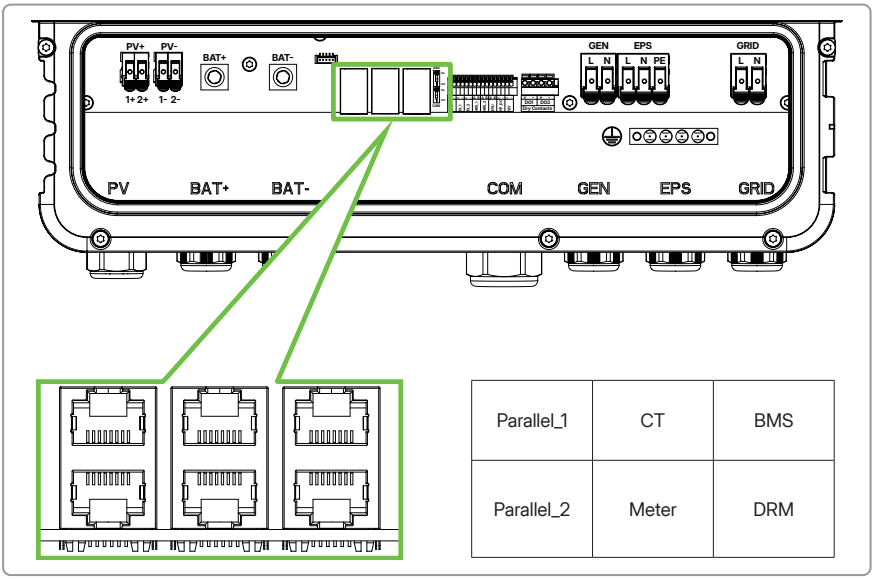
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GEN Connection



Communication Cable Connection

COM1 Connection



Parallel_1	CT	BMS
Parallel_2	Meter	DRM

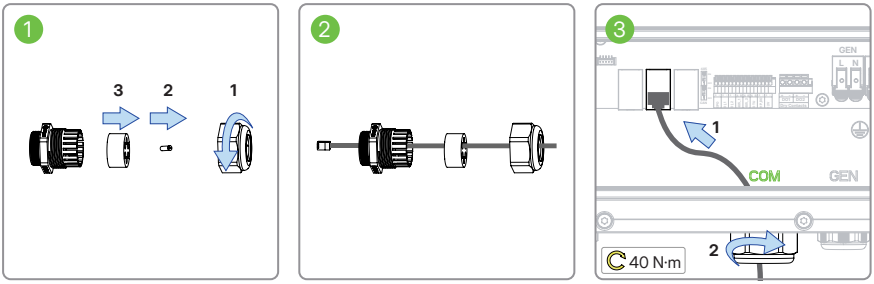
Note:

The wiring sequence of the network cable for parallel terminals differs from that of a standard network cable. For details, see the table below.

Terminal	PIN	Definition							
		1	2	3	4	5	6	7	8
Parallel_1		NC	GND	CANH	CANL	RXD	TXD	485B	485A
Parallel_2		NC	GND	CANH	CANL	RXD	TXD	485B	485A
CT		IL+	NC	NC	NC	NC	NC	NC	IL-
Meter		NC	NC	NC	485A	485B	GND	NC	NC
BMS		NTC+	GND	NTC-	CANH	CANL	GND	NC	NC
DRM		DRM1/5	DRM2/6	DRM3/7	DRM4/8	REF	COM	NC	NC

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Taking CT Connection as an example:



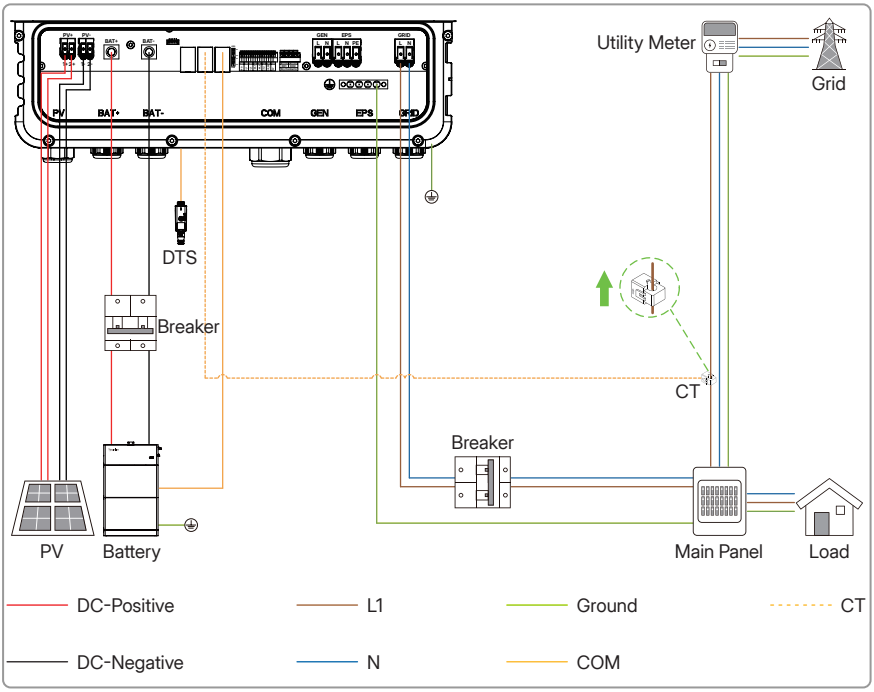
Note:

There are rubber plugs at the bottom of the cable gland. To ensure sealing performance, remove the rubber plugs based on the actual number of cables.

CT Connection

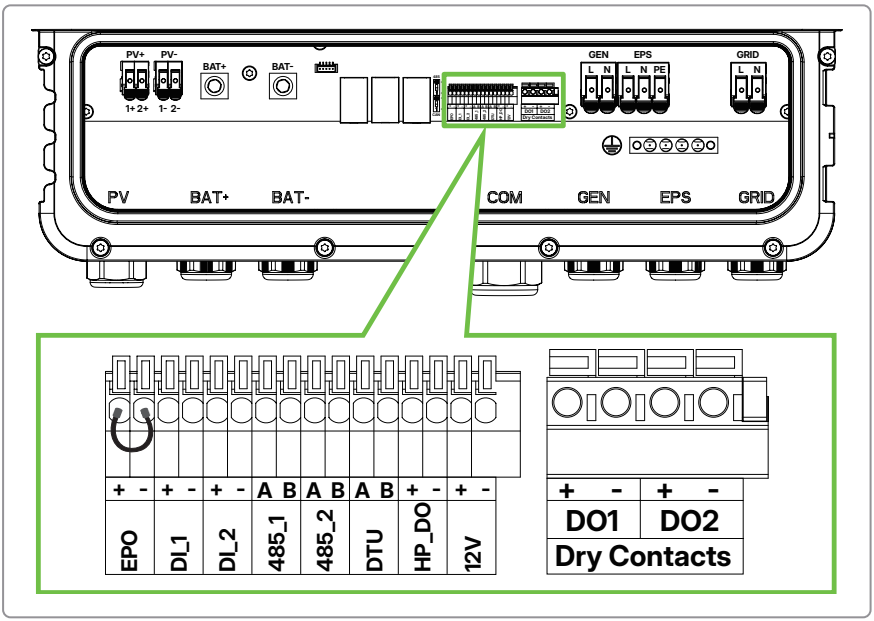
Step 1 Clamp the CT onto Grid L. Ensure the arrow on the surface of the CT points to the grid.

Step 2 Connect the CT to the inverter's CT terminal.



COM2 Connection

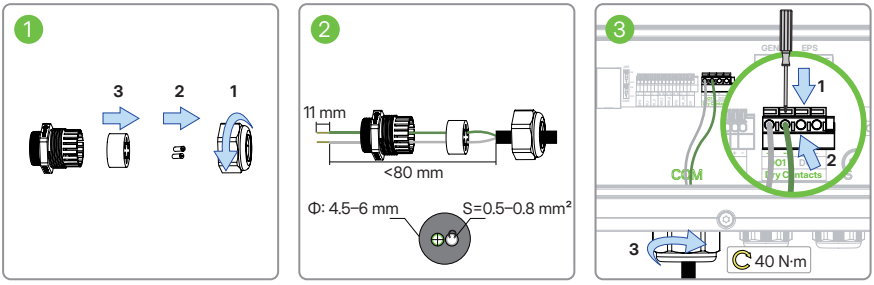
Cable	Recommended Specification (mm²)	Stripping Length (mm)
	HIS-3/3.6/4.6/5/6/8L-G3S	HIS-3/3.6/4.6/5/6/8L-G3S
COM2	0.5–0.8	11



Label	Definition
EPO	For external Emergency Power Off switch.
DI_1 (IN+, IN-)	Reserved dry contact input.
DI_2 (IN+, IN-)	Dry contact input of external bypass contactor.
485_1	For the EV charger control.
485_2	For the third-party control and VPP operation.
DTU	For DTU communication.
HP_DO	For SG Ready heat pump control.
12V	(Optional) For SG Ready heat pump control.
DO1 (NO1, COM1)	Dry contact output. The DO1 can be set to one of the functions as follows: Earth Fault Alarm, Load Control, and Generator Control.
DO2 (NO2, COM2)	Dry contact output. The DO2 will control the bypass contactor under certain logic.

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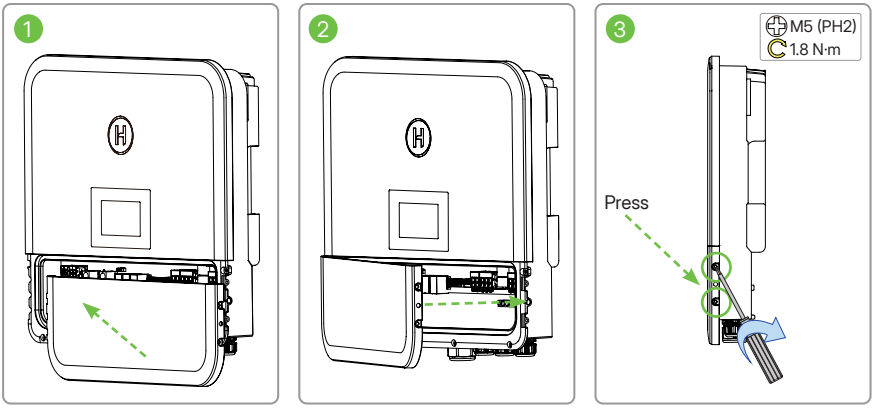
Taking DO1 Connection as an example:



Note:

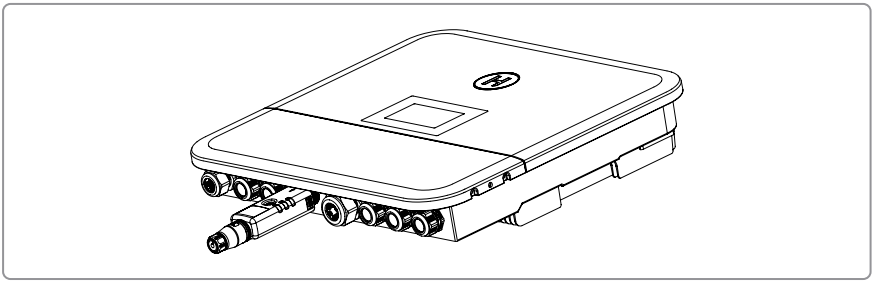
There are rubber plugs at the bottom of the cable gland. To ensure sealing performance, remove the rubber plugs based on the actual number of cables.

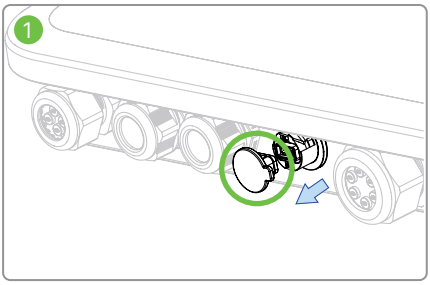
Installing the Wiring Box Cover

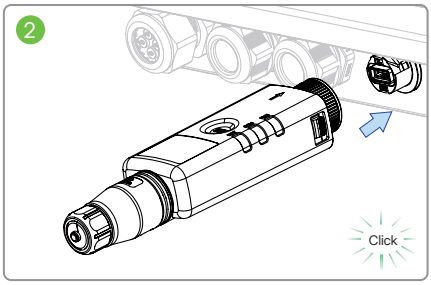


Installing the Data Transfer Stick (DTS)

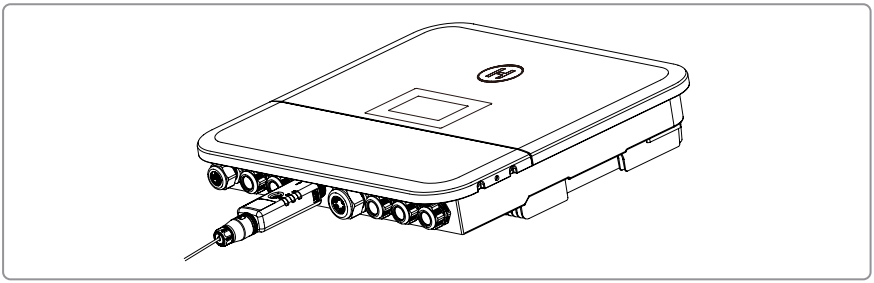
DTS-WL-G3 (Wi-Fi Mode)

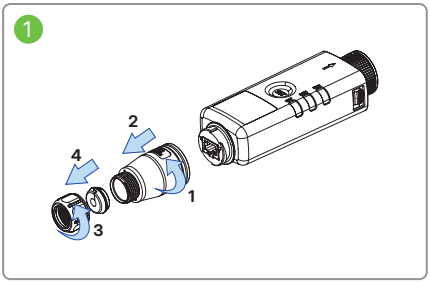


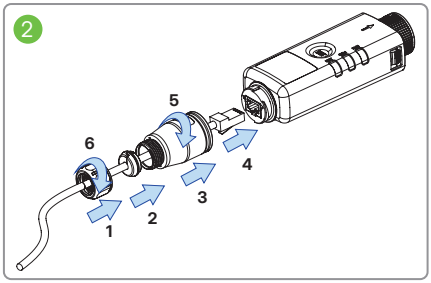


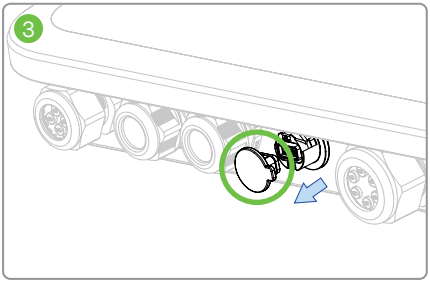


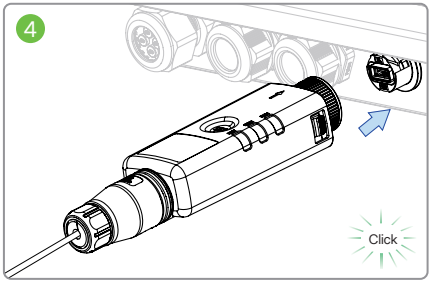
DTS-WL-G3 (LAN Mode)











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6 System Power-on

Step 1 If the inverter is connected to the battery, turn on the battery power switch and DC breaker.

Step 2 Turn on the AC breaker between the inverter and the grid.

Step 3 Rotate the DC switch to “ON” if the inverter is connected to the PV strings.

7 Commissioning via Hoymiles App

S-Miles Installer

S-Miles Enduser

User Manual in the QR code or at
www.hoymiles.com/downloads.html

Installation video in the QR code or at
www.youtube.com/@Hoymiles/videos

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