

# Quick Installation Guide

Split-Phase Hybrid Inverter  
TX5K-HM/TX6K-HM/TX7.6K-HM  
TX9.6K-HM/TX11.4K-HM



- 1.Contents may be periodically updated or revised due to product development. The information in this guide is subject to change without notice. In no case shall this guide substitute for the user manual or related notes on the device.
- 2.Make sure to read over, fully understand and strictly follow the detailed instructions of the user manual and other related regulations before installing the equipment. The user manual can be downloaded by visiting the website at [www.dyness-tech.com](http://www.dyness-tech.com), or it can be obtained by scanning the QR code on the side of the equipment or the back cover of this guide.
- 3.All operations can be performed only by qualified personnel that must be trained for the installation and commissioning of electrical system, as well as dealing with hazards have and knowing the manual and local regulations and directives.
- 4.Before installation, check that the package contents are intact and complete compared to the packing list. Contact DYNESSE or the distributor in case of any damaged or missing components.
- 5.The cable used must be intact and well-insulated. Operation personnel must wear proper personal protective equipment (PPE) all the time.
- 6.Any violation could result in personal death or injury or device damage and will void the warranty.

## **Safety**

The inverter has been designed and tested strictly according to international safety regulations. Read all safety instructions carefully before any work and observe them at all times when working on or with the inverter.

Incorrect operation or work may cause:

Injury or death to the operator or a third party, as well as damage to the inverter and other properties, may occur.

## **Warning**

Any installation or operations on the inverter must be performed by qualified electricians in compliance with standards, wiring rules and the requirements of local grid authorities or companies

Never insert or remove the AC or DC connections when the inverter is running.

Before making any wiring connections or performing electrical operations on the inverter, all DC and AC power must be disconnected for at least 5 minutes to ensure that the inverter is totally isolated to avoid electric shock.

The temperature of the inverter surface can exceed 140°F during operation. Ensure it has cooled down before touching it and the inverter is out of reach of children.

Do not open the inverter cover or change any components without the manufacturer's authorization. Otherwise, the warranty for the inverter will be invalid.

The usage and operation of the inverter must follow the instructions in this User Manual.

Otherwise, the protection design might be impaired, and the warranty for the inverter will be invalid.

Appropriate methods must be adopted to protect the inverter from static electricity damage.

The manufacturer does not provide warranty for any damage caused by static electricity.

PV negative (PV-) and battery negative (BAT-) on the inverter side are not grounded as the default design. Connecting either PV- or BAT- to EARTH is strictly forbidden.

The inverter, with a built-in RCMU, will prevent the possibility of DC residual currents up to 6mA.

Thus, in the system, an external RCD (type A) can be used ( $\geq 30\text{mA}$ ).



Disconnect the inverter from all the external power sources before maintenance Failure to observe any warnings contained in this manual may result in injury.



Danger to life due to high voltages!



Hot surface! Burn danger due to hot surface that may exceed 140°F.



Products shall not be disposed of as household waste.



Refer to the operating instructions.



Do not touch live parts for 5 minutes after disconnection from the power sources.

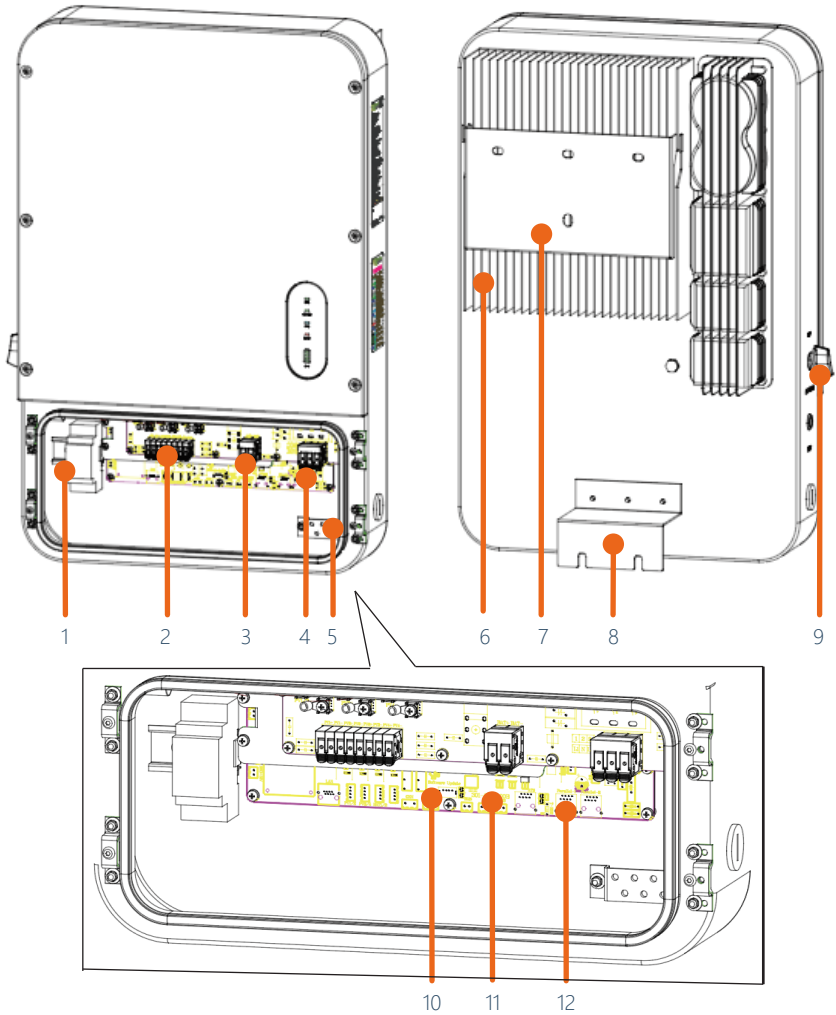
## LED Indicators

The LED indicator on the front of the inverter can indicate the current working state of the inverter.

| LED INDICATOR | LED STATUS | DEFINITION  |
|---------------|------------|---|
| RUN           |            | ON = Inverter is running                                      |
|               |            | Single Flash = Inverter is power on                           |
|               |            | Double Flash = Inverter is starting                           |
|               |            | OFF = Inverter is not operating                               |
| OFF GRID      |            | ON = Back-up is ready   |
|               |            | Single Flash = Grid bypass mode                               |
| COM           |            | OFF = Back-up port no voltage                                 |
|               |            | ON = BMS and meter communication ok                           |
|               |            | Single Flash = Meter communication ok, BMS communication fail |
| FAULT         |            | Double Flash = BMS communication ok, Meter communication fail |
|               |            | OFF = BMS and Meter communication fail                        |
|               |            | ON = Error Occured  |
| SOC           |            | OFF = No Errors   |
|               |            | 4th LED Blinks = $0\% \leq \text{SOC} \leq 25\%$              |
|               |            | 3rd LED Blinks = $25\% < \text{SOC} \leq 50\%$                |
|               |            | 2nd LED Blinks = $50\% < \text{SOC} \leq 75\%$                |
|               |            | 1rd LED Blinks = $75\% < \text{SOC} \leq 100\%$               |



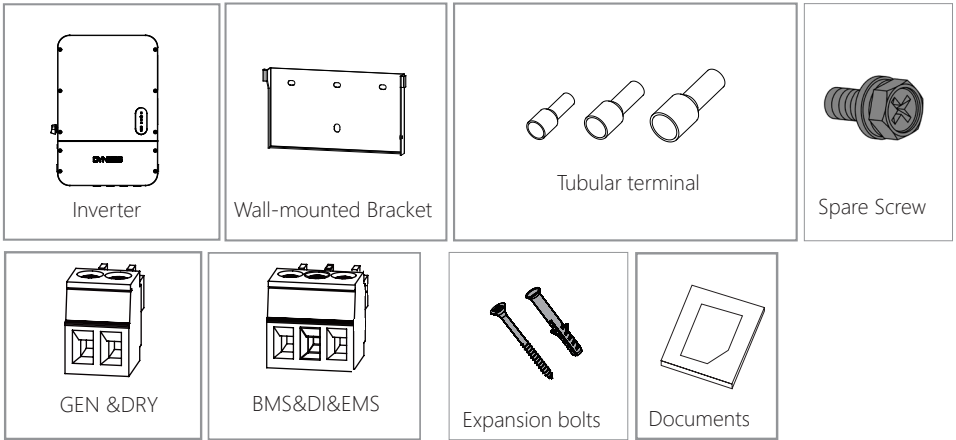
# Product Overview



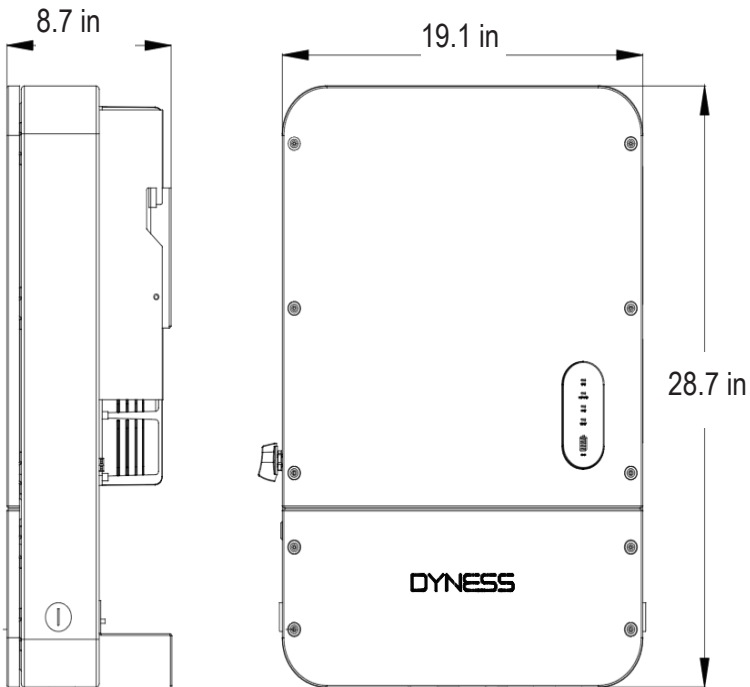
|     |                              |     |                              |     |                              |
|-----|------------------------------|-----|------------------------------|-----|------------------------------|
| 1.  | RSD Module                   | 2.  | PV Input Terminal (PV+ /PV-) | 3.  | Battery Terminal(BAT+ /BAT-) |
| 4.  | AC Output Terminal (L1/L2/N) | 5.  | PE Terminal                  | 6.  | Heatsink                     |
| 7.  | Wall Mounting Plate          | 8.  | Back Support                 | 9.  | DC Switch (PV Only)          |
| 10. | GEN&DRY COM                  | 11. | BMS&DI&EMS COM               | 12. | RJ 45                        |

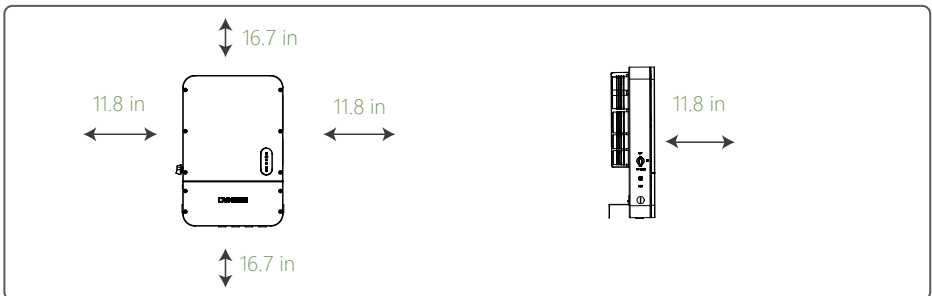
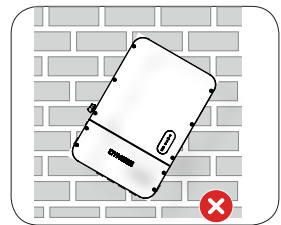
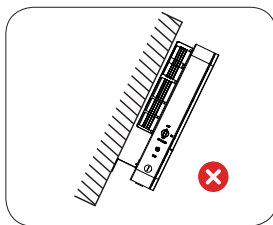
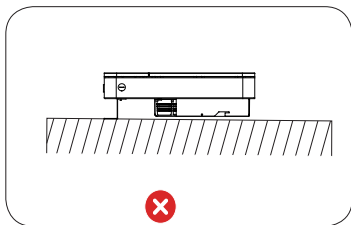
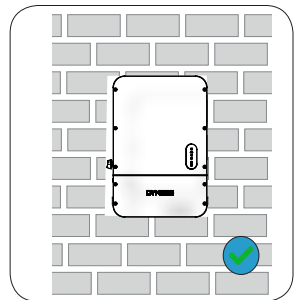
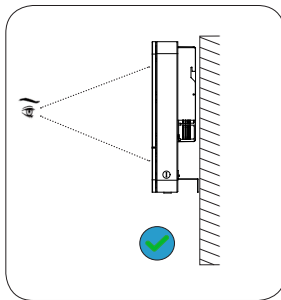
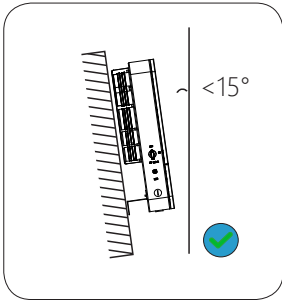
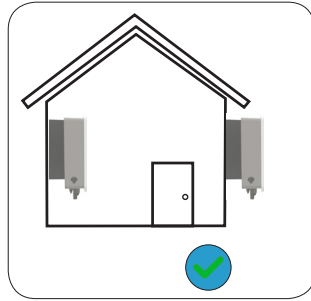
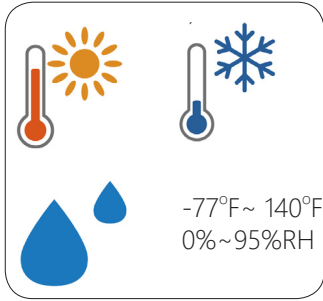
## Scope of Delivery

Upon receiving the hybrid inverter, please check if any of the items as shown below are missing or broken.



## Dimension



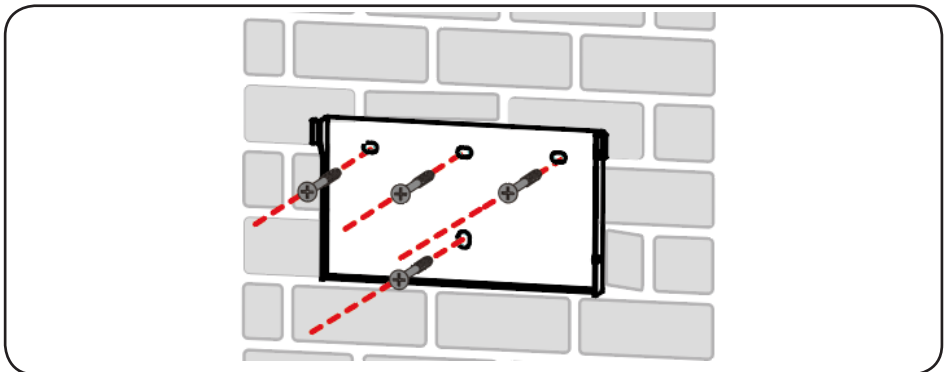
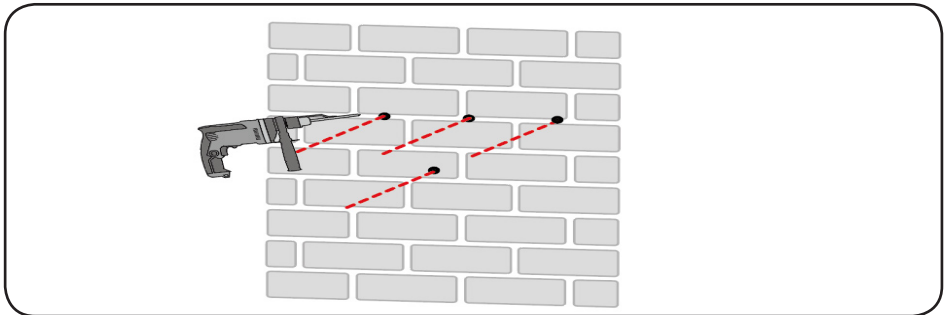
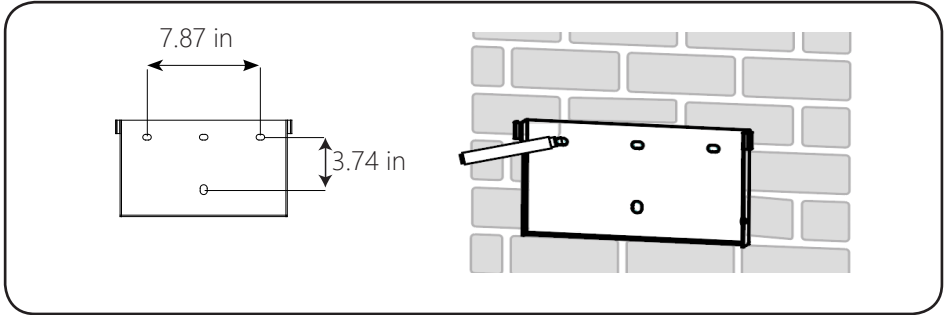


# Mounting

## Step 1

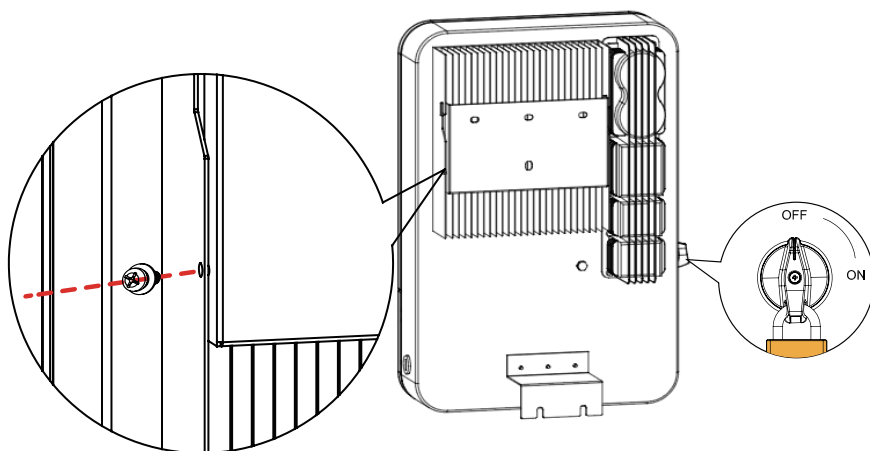
Install the inverter on the wall using the provided wall-mounting bracket and expansion plug sets.

The bearing capacity of the wall must be greater than 72.8lb. Otherwise, the wall may be unable to prevent the inverter from dropping.

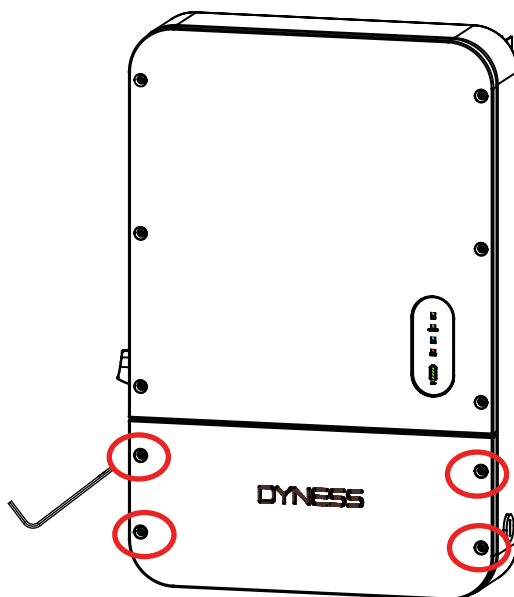


## Step 2

Carry the inverter by holding the heat sink on two sides and placing the inverter on the mounting bracket.

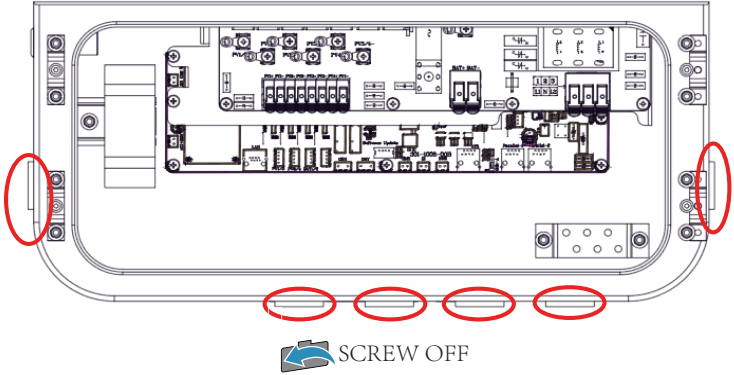


## Step 3

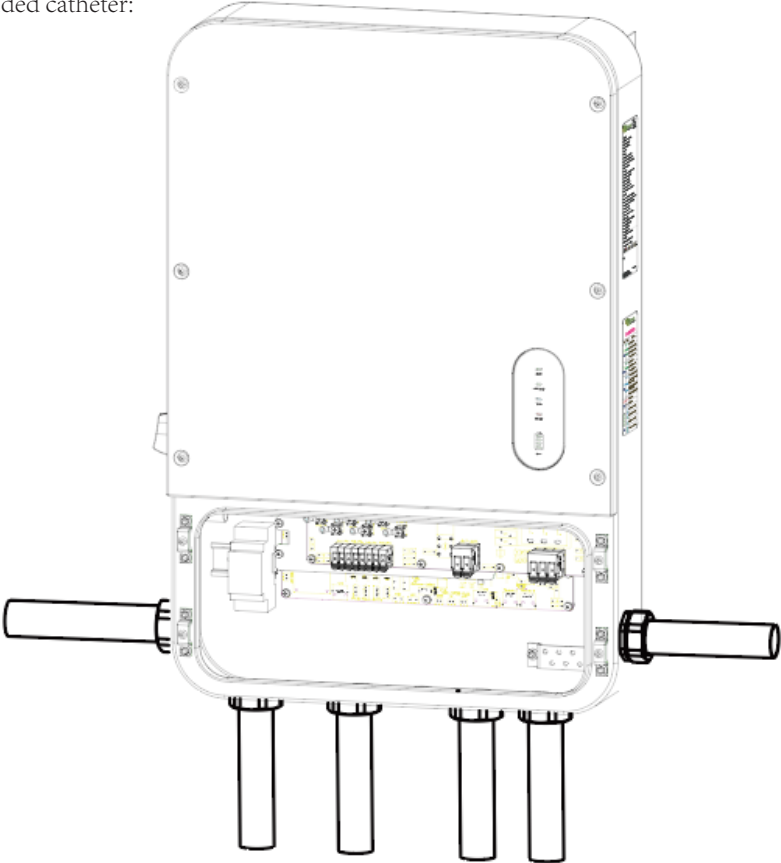




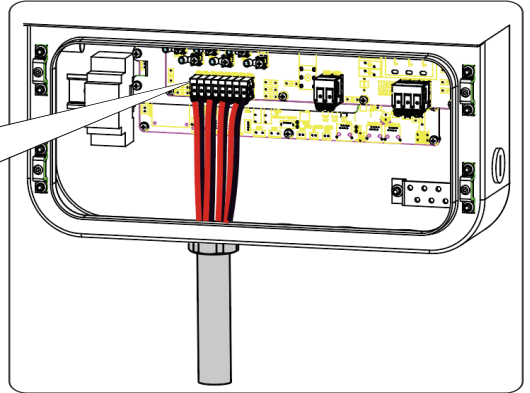
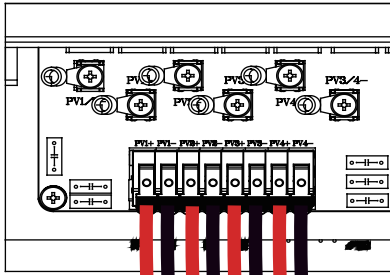
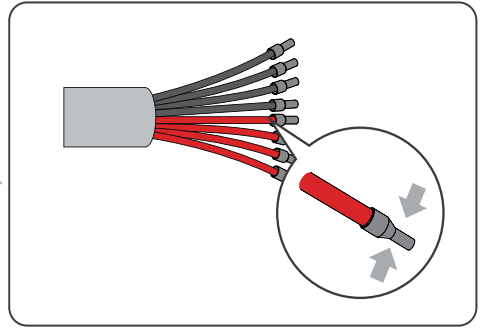
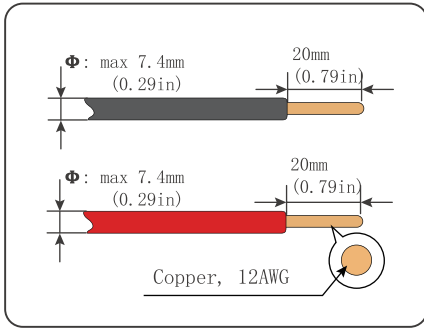
Step 3



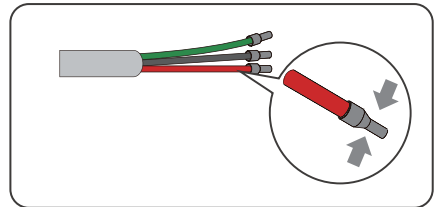
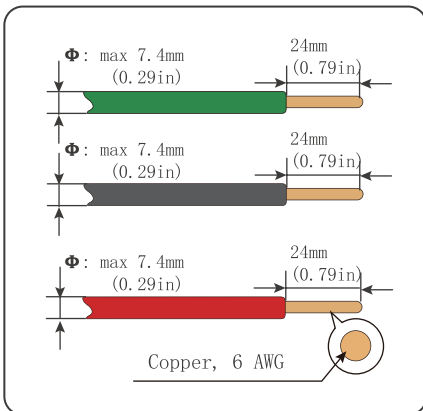
Recommended catheter:  
1 inch

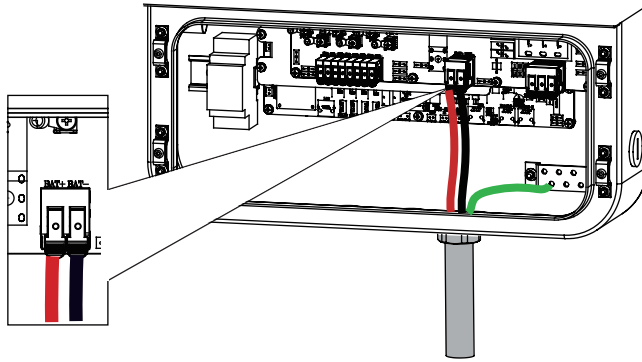


# PV INPUT

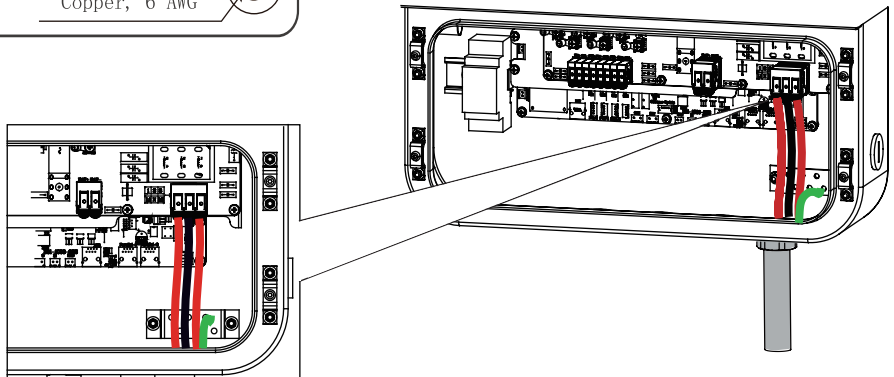
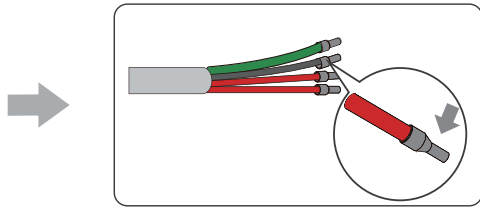
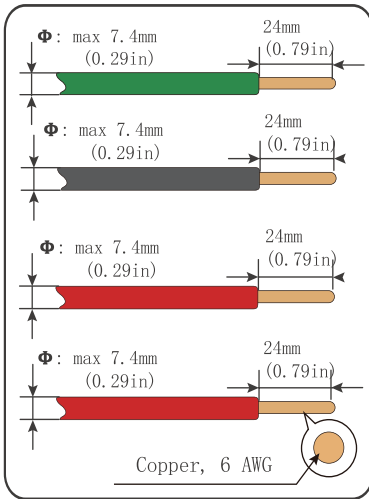


# BAT INPUT

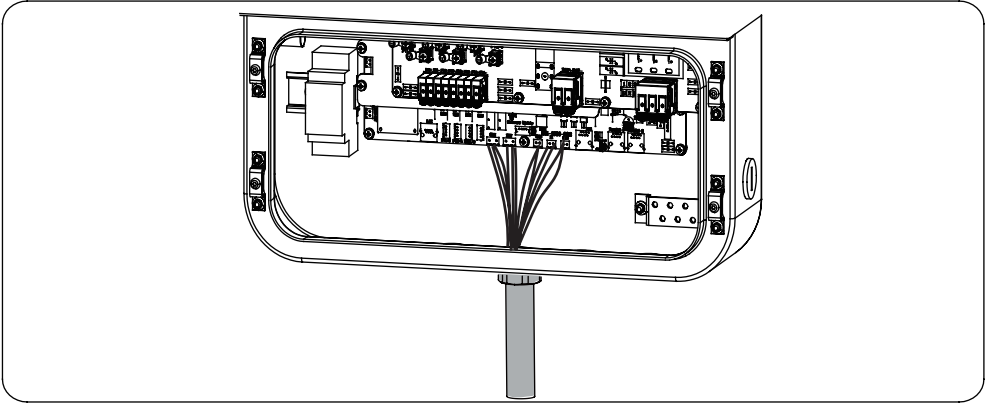




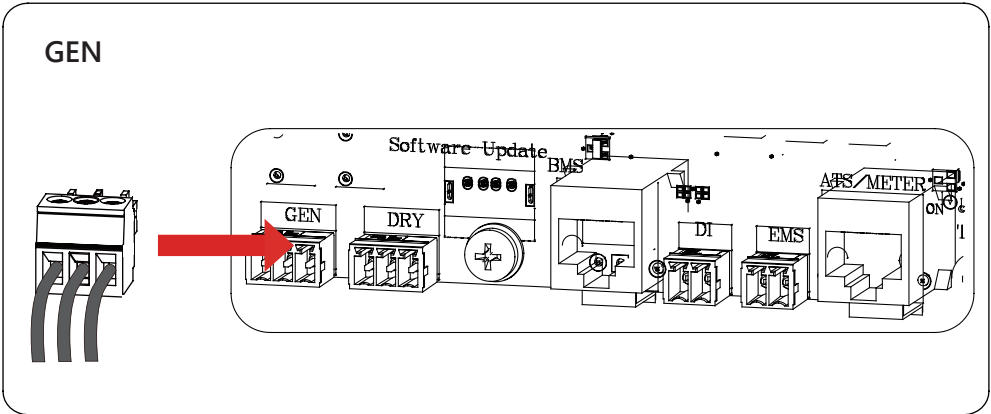
## AC INPUT



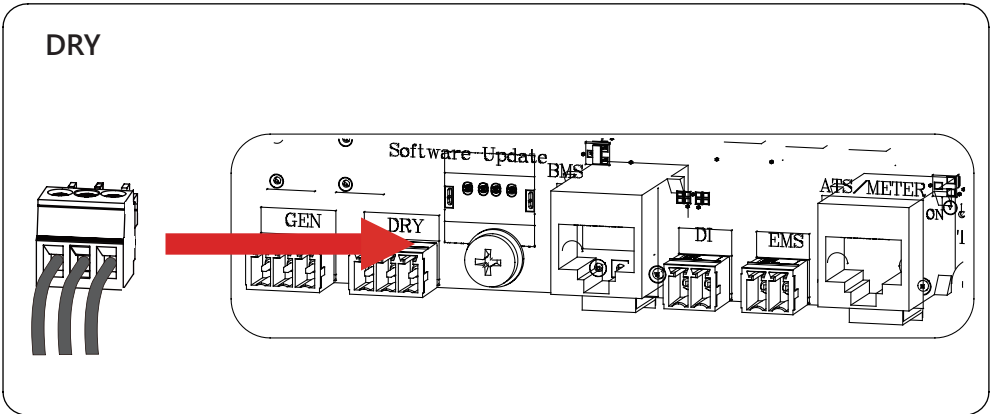
# Communication Connect



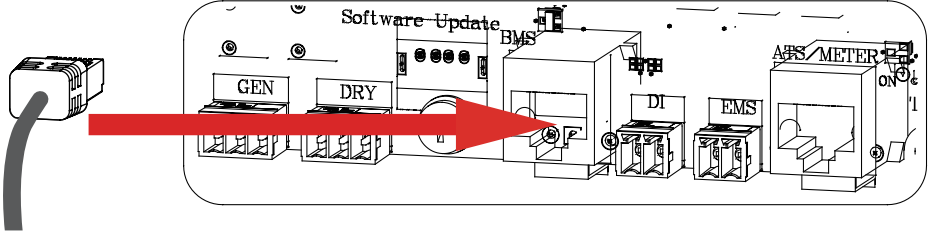
## GEN



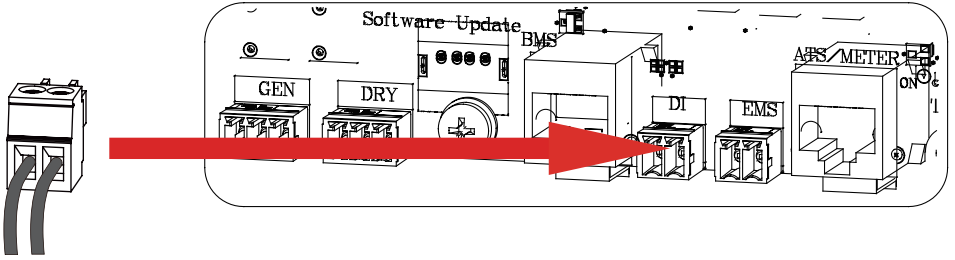
## DRY



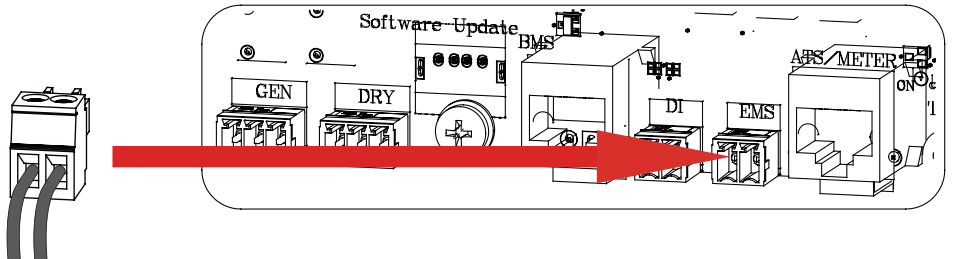
## BMS



## DI



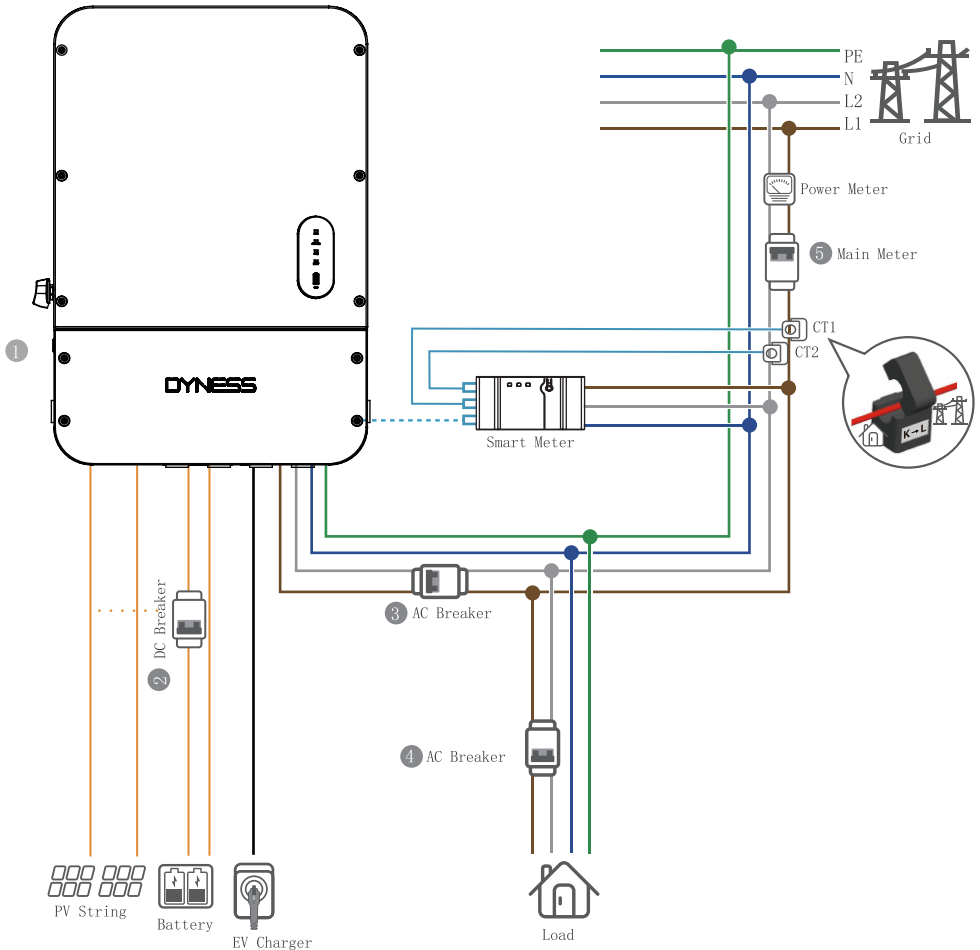
## EMS



## Power On Without SCD BOX

| Inverter            | ①                      | ②   | ③④                       | ⑤                                |
|---------------------|------------------------|---|--------------------------|----------------------------------|
| TX5K-HM/TX6K-HM     | 32A/1100V<br>DC Switch | MAX Battery<br>Current(A)<br>*1.2<br>DC breaker | 25 A/400 V AC<br>breaker | Depends on<br>household<br>loads |
| TX7.6K-HM/TX9.6K-HM |                        |   | 32 A/400 V AC<br>breaker |                                  |
| TX11.4K-HM          |                        |   | 63 A/400 V AC<br>breaker |                                  |

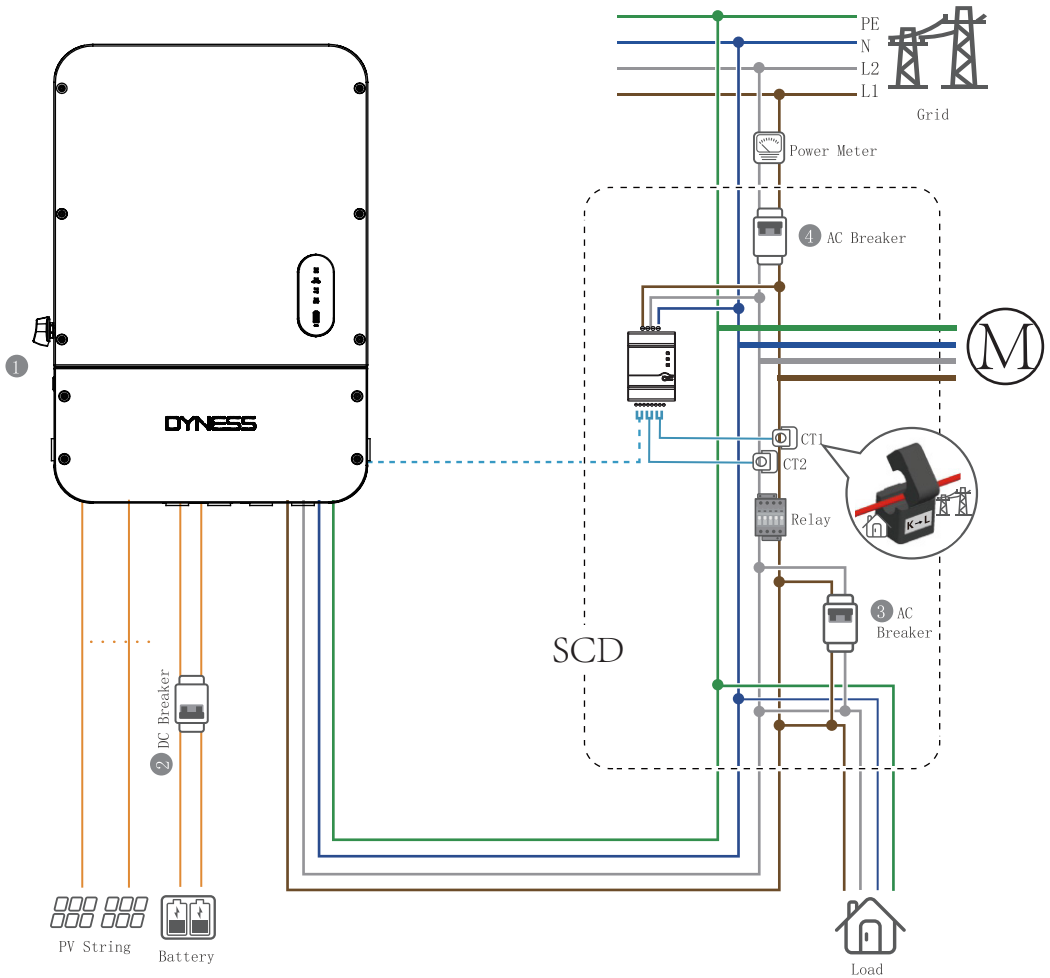
Power-on Sequence ⑤→②→①→④→③



## Power On With SCD BOX

| Inverter            | ①                      | ②   | ③④                       |
|---------------------|------------------------|---|--------------------------|
| TX5K-HM/TX6K-HM     | 32A/1100V<br>DC Switch | MAX Battery<br>Current(A)<br>*1.2<br>DC breaker | 25 A/400 V AC<br>breaker |
| TX7.6K-HM/TX9.6K-HM |                        |   | 32 A/400 V AC<br>breaker |
| TX11.4K-HM          |                        |   | 63 A/400 V AC<br>breaker |

Power-on Sequence ②→①→④→③





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