

5 Installation

5.1 Basic Installation Requirements

- A. The installation location must be suitable for WIT's weight for a long period time. (Refer to Table 3.2 for the weight of the WIT Inverter).
- B. Ensure that the installation position is suitable for the dimensions of the WIT Inverter.
- C. Do not install the WIT Inverter in areas with flammable or non heat-resistant materials.
- D. The WIT Inverter is protected to IP66 and can be installed indoors or outdoors.
- E. Do not expose the WIT Inverter to direct sunlight. Otherwise, excessive temperature may lead to power reduction.
- F. Keep the humidity at 0% to 95% RH.
- G. Keep the ambient temperature at -30°C to 60°C .
- H. The WIT inverter can be installed vertically or backward tilted. Please refer to the figures below:

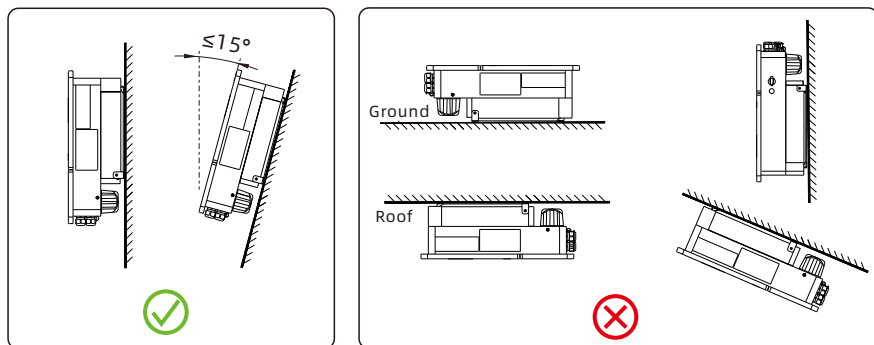


Fig 5.1

- I. Reserve enough clearance around the WIT Inverter to ensure sufficient space for heat dissipation and operation. Leave a clearance of 0.6 m on both sides, approximate 0.6 m above and below the WIT Inverter, and 1 m in front of the inverter.

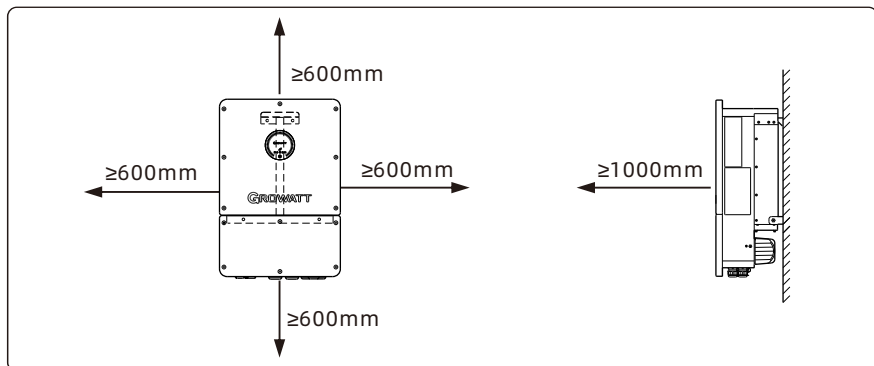


Fig 5.2

- J. Keep the WIT Inverter away from strong interference sources.
- K. Ensure that the WIT Inverter is not accessible to children.

5.2 Installation Environment Requirements

- A. Though the WIT Inverter is protected to IP66, do not expose it to direct sunlight, rain and snow. Please refer to the figures below:



Fig 5.3

- B. To reduce the de-rate performance of the inverter and extend inverter's life span, we strongly recommend you install an awning. For the distance between an awning and inverter, please refer to following figure:

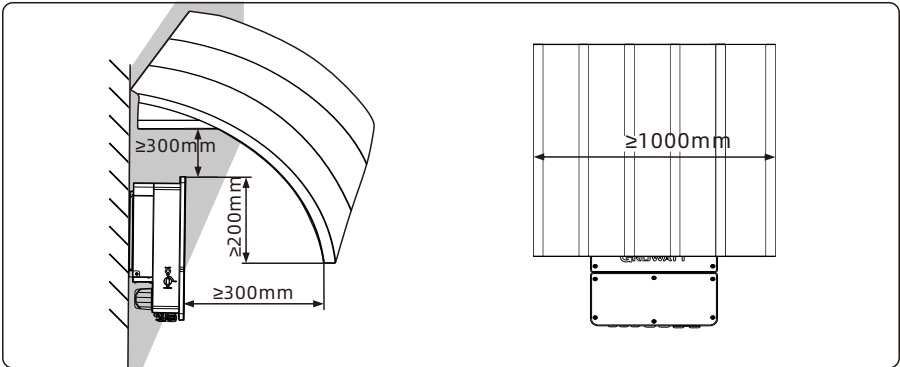
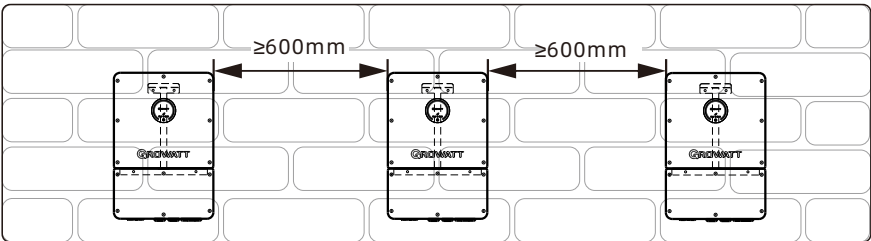


Fig 5.4

- C. When you install multiple WIT inverters on one surface, inverters should be installed as following drawing. (Choose one of the two options below).



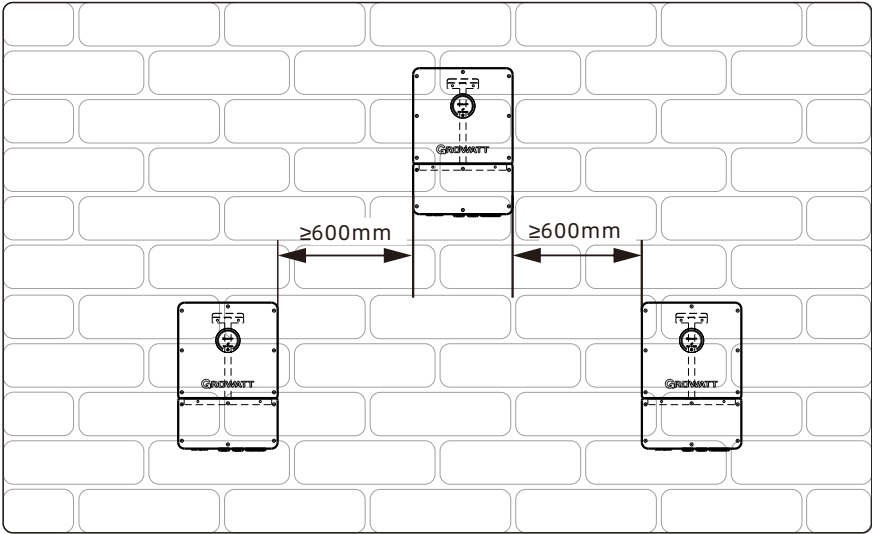


Fig 5.5

D. Do not place the WIT Inverter in an enclosed and narrow space for operation.

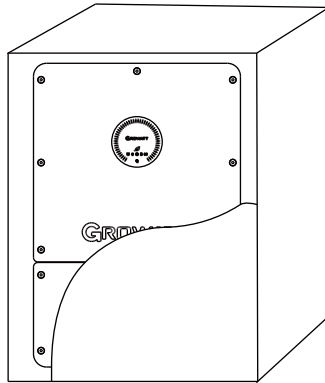


Fig 5.6

5.3 Moving the WIT Inverter



CAUTION

- The inverter is heavy, please move it with care and keep balance to avoid personnel injury.
- Do not place the inverter with its wiring and signal terminals at the bottom contacting with floor or any other object because the terminals are not designed to support the weight of inverter.

- 1>As shown in Fig 5.7, two persons are required to lift the inverter out of the package and transport it to the installation position.
- 2>When you are moving the inverter, please keep the balance.

Note: There will be front and bottom mark on the package.

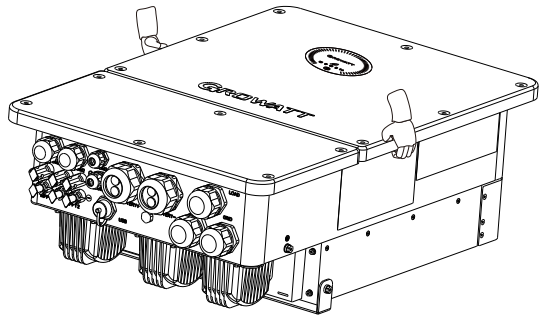


Fig 5.7

5.4 Wall Mount Bracket Installation

Before installing the inverter, you need install the wall mount bracket so that the inverter can be securely mounted on the wall.

Wall mount bracket (unit: mm):

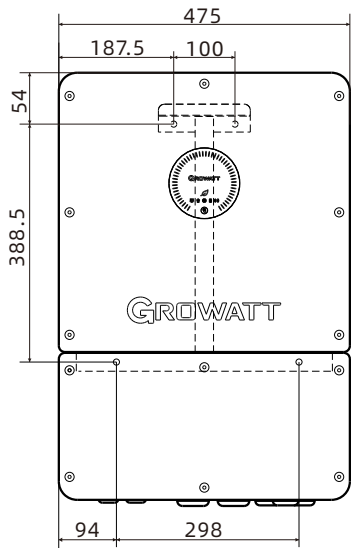


Fig 5.8

STEP 1: Use the wall mount plate as a template, drill holes into the wall and insert the expansion bolts as Fig 5.9 show.

STEP 2: Tighten the bolts to attach the wall mount bracket onto the wall securely as illustrated below.

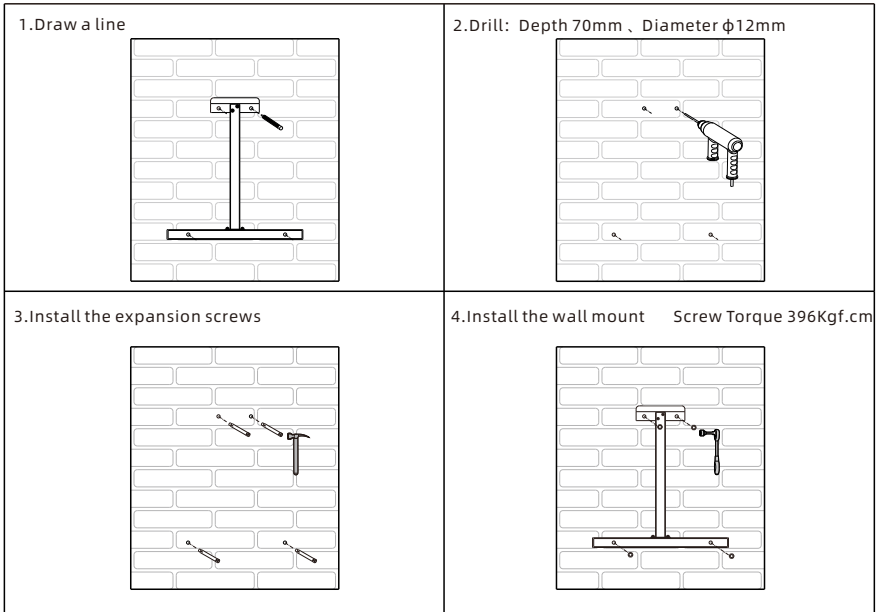


Fig 5.9

Note:

- 1> The wall where the expansion bolts are installed should be a solid concrete or brick wall with a thickness of at least 100 mm.
- 2> Ensure that the bracket has been firmly installed before mounting the inverter onto it.

5.5 Installing the Inverter

After verifying that the wall mount bracket has been firmly installed on the wall, mount the inverter onto the bracket.

- 1> The installer uses both hands to lift the machine as shown in Fig 5.10 below.
- 2> Hang the inverter onto the wall mount bracket and install the bolts. Please keep balance when moving the inverter.
- 3> Check if the inverter has been properly mounted and tighten all screws.

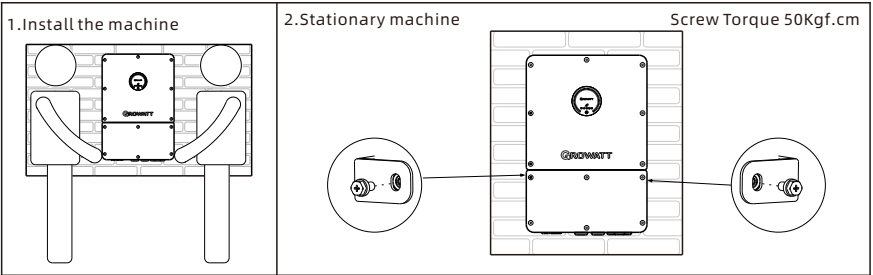


Fig 5.10 Wall-mounted installation



Ensure that the wall meets the load-bearing requirements of the equipment. For details about the weight, see Table 3.2.