SSA-HL12K-P1EU
SSA-HL12K-P1EU_DO
Installation Guide

1. Select the installation location

Choose the appropriate location to install the inverter to ensure that the inverter can work normally and efficiently. The following factors must be taken into account in the selection of the installation location:

◆ The protection level of the inverter is IP20, and it cannot be used outdoors without protection.

◆ The ambient temperature should be kept below 45°C to ensure the best operation and prolong its service life.

◆ In the living area, do not install the inverter on the gypsum board wall or similar wall with poor sound insulation, so as not to disturb the residents in the living area due to the noise emitted during its work.

◆ The inverter should be installed in a well-ventilated environment to ensure good heat dissipation.

◆ Do not expose the inverter to direct sunlight, rain and snow.

◆ The cable connection area must face downward.

◆ It is recommended to choose an appropriate height to install it to facilitate the observation and operation of the monitoring panel.

◆ The installation method and location must be suitable for the weight and size of the inverter, please refer to the technical data.

◆ Please ensure that the wall is firm and meets the load-bearing requirements of the inverter.

◆ The distance between the inverter and the surrounding objects should meet the following conditions: The distance between the left and right ⩾ 300mm; Upper distance ⩾300mm; The lower distance is ⩾300mm to ensure that there is enough space for installation and heat dissipation.

2. Carry the inverter

Please remove the inverter from the outer packaging and carry it horizontally to the designated installation position.

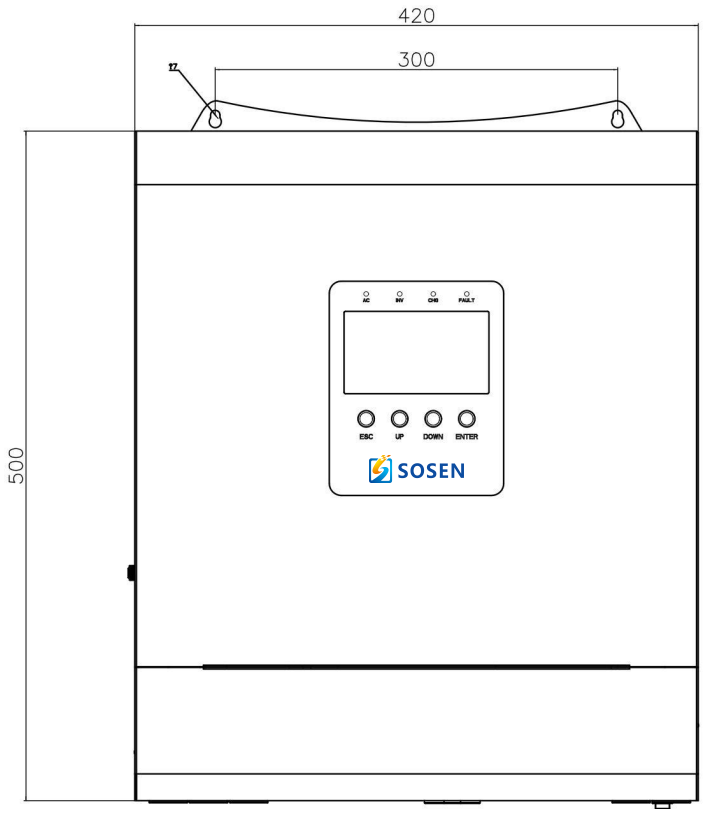
◆ The inverter is heavier, please pay attention to keep the balance when handling, so as not to fall and hurt the operator.

◆ The power line interface and signal line interface at the bottom of the inverter cannot bear weight, and do not directly touch the terminal to the ground. Place the inverter horizontally.

◆ When the inverter is placed on the ground, it is necessary to pad foam or paper under it to avoid damage to the shell.

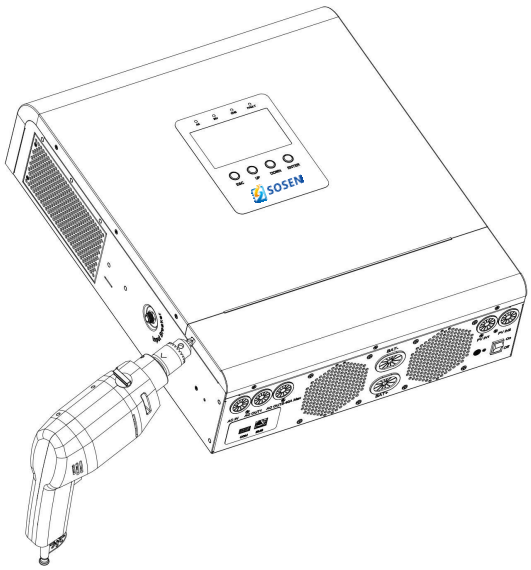
3. Steps to install the inverter

1. Determine the punching position, level the hole position with a level, and mark it with a marker, size unit: mm.

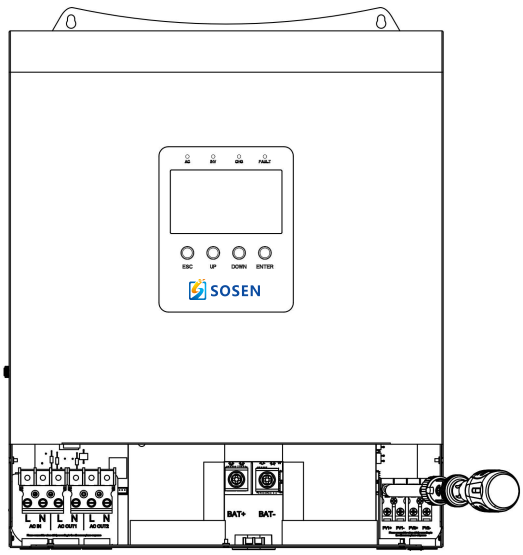


Mounting holes

2. Select the Φ 7 type drill bit, use a percussion drill to punch holes in the vertical wall at the marked hole position, slightly tighten the expansion bolt and hang it into the hole, and beat it with a rubber hammer until the expansion pipe all enters the installation hole.



Remove the power strip



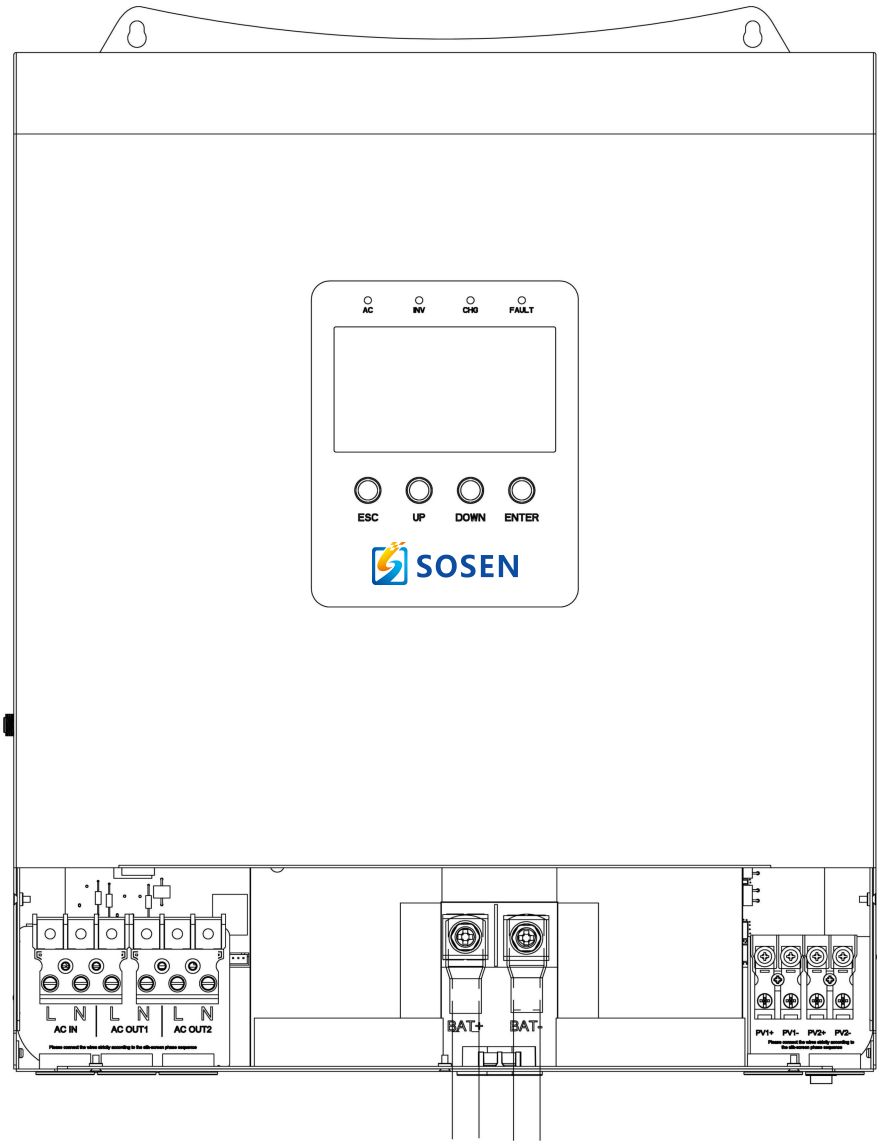
Tighten the screws

4. Electrical connection operation steps

4.1 Installing the battery cable BAT+, BAT-

As shown in the figure below, connect the two cables to the corresponding position of the inverter, and lock the flange nut with a tightening torque of 5N•m

Crimp terminals



Access to BAT+, BAT-

4.2 Install PV, mains and load cables

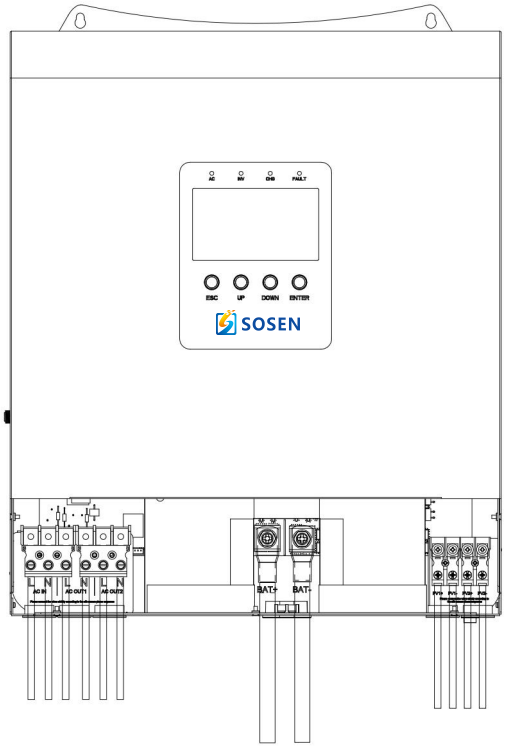
a. Use wire strippers to strip the cable of insulation to the appropriate length.

Cable stripping

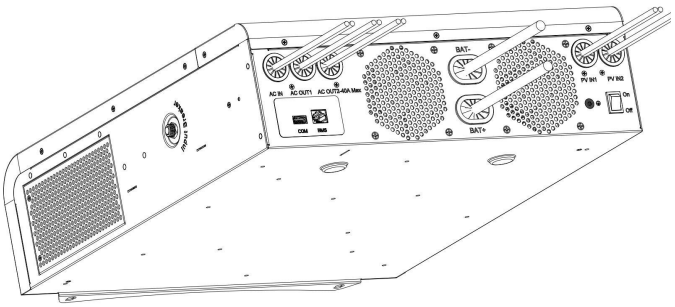
b. Use crimping pliers to press the cable.

Crimp terminals

c. Connect the cable to the inverter and tighten it with a screwdriver.



Access cable



Access cable

*Only 'SSA-HL12K-P1EU_DO' model have 'AC OUT2-40A Max'