



NV16KAC

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California since 2018

Installation Manual

NV16KAC-Inverter Adapter
Bracket Kit



Declaration: This installation guide will be made available online, and a printable copy will be included with the new NV16KAC-Adapter Bracket Kit. The adapter bracket kit will be sold as an accessory package for customers installing the NV16KAC Hybrid Inverter in conjunction with the NVPlus-16 battery.

Technical Support: If you have any questions, or anything that it is not clear for you during installation, wiring, and/or operation, contact us at 800.364.5464.

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Installation Manual

NV16KAC-Inverter Adapter Bracket Kit

1 Notes on this Manual:

1.1 Purpose of Manual

- To be used to install the NV16KAC Hybrid Inverter with the NVPlus-16 Battery.

1.2 NV16KAC

- Inverter weight: 123lbs (56kg)
- For additional information on the NV16KAC
 - See the NV16KAC Installation Manual located at www.neovolta.com/support/

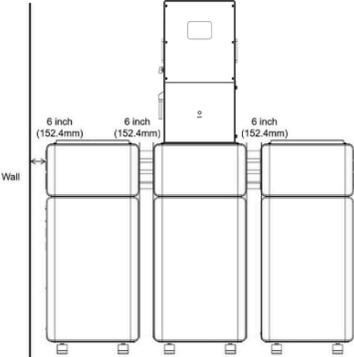
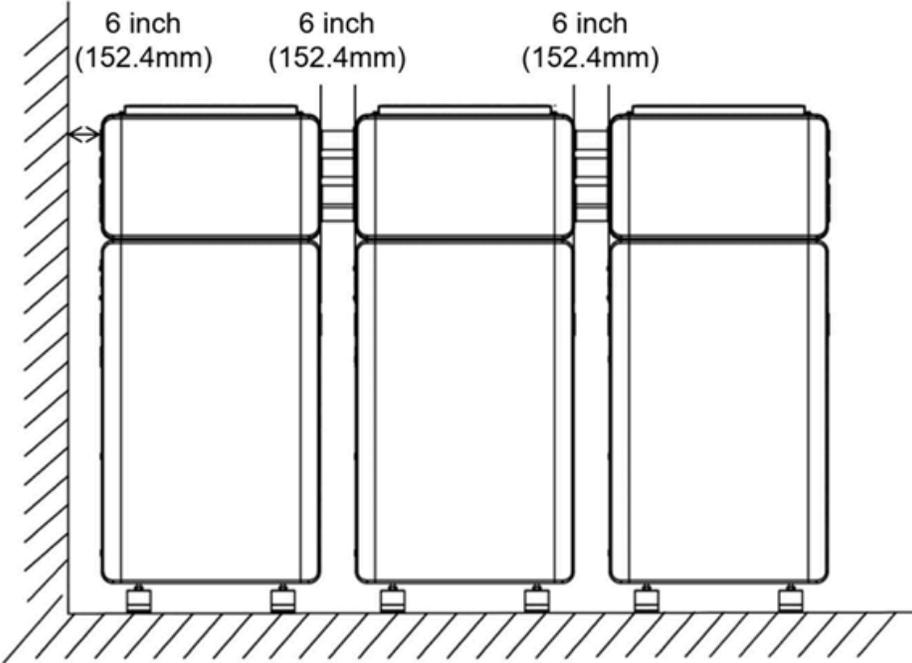
1.3 NVPlus-16

- The NVPlus-16 LFP battery is UL 9540 (3rd Edition) certified and can be installed with the NV16KAC Hybrid Inverter, which is UL 1741 SA & SB listed.
- The NVPlus-16 battery is certified for both indoor and outdoor installation as a residential BESS.
- It may be wall-mounted or floor standing when secured to the wall using the supplied mounting bracket.
- Ensure the battery is installed on a structurally suitable wall capable of supporting the combined weight of the battery and inverter:
- Battery weight: ~351lbs (159kg)
- Per the UL 9540A report, the minimum spacing between battery modules—or between a module and a wall—is 6 inches (152.4mm).
 - This is the minimum clearance. Always verify spacing requirements with your Authority Having Jurisdiction (AHJ), as local codes may require additional clearance for BESS installations.
- For additional information on the NVPlus-16
 - See the NVPlus-16 Installation Manual located at www.neovolta.com/support/

2 Introduction

2.1 Standard Battery Spacing for Multiple Batteries

- Battery spacing requirements for multiple NVPlus-16 batteries

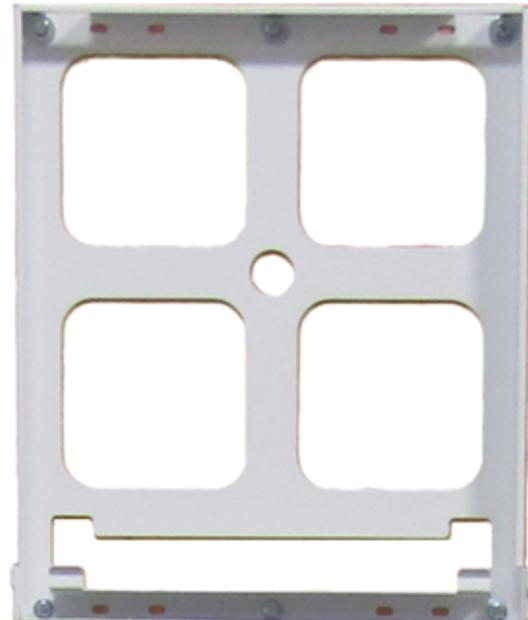


2.2 The NV16KAC-Adapter Breaker Kit Package Items

- The NV16KAC-Adapter Breaker Kit has two individual parts:

1. The spacer bracket

2. The new inverter wall bracket



Note: The existing inverter wall bracket that comes with the NV16KAC inverter is not being used and can be discarded or recycled.

2.3 Additional Materials Needed

- The following items are not provided and will need to be sourced by the installer:
 - Knockout Bushings such as PLASTIC SNAP-IN BUSHINGS in the size 2in
 - 1-1/2in and 3/4in. for the inverter conduit KO's (check with your local codes and AHJ)
 - Mounting screws to secure the spacer bracket to the wall.

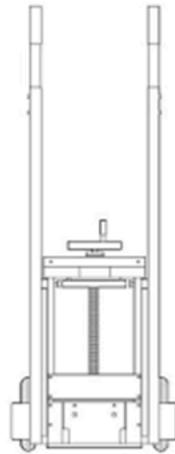
2.4 Tools

- The NV16KAC-Adapter Bracket Kit does not come with any hardware. The existing hardware that is supplied with the NVPlus-16 battery and the NV16KAC inverter are needed for the installation.

The following tools are required to install the product:



Cordless Drill



Dolly



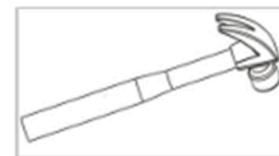
Measuring Tape



Flathead Screwdriver



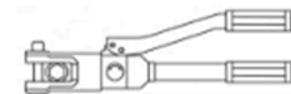
Phillips Screwdriver



Hammer



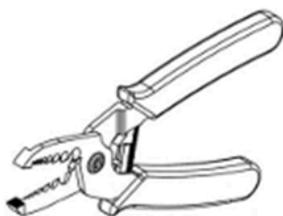
Torque Wrench



Hydraulic Clamp



Spirit Level



Crimping Pliers

2.5 Safety Gear

It is recommended to wear the following safety gear when dealing with the product:



Insulated Gloves



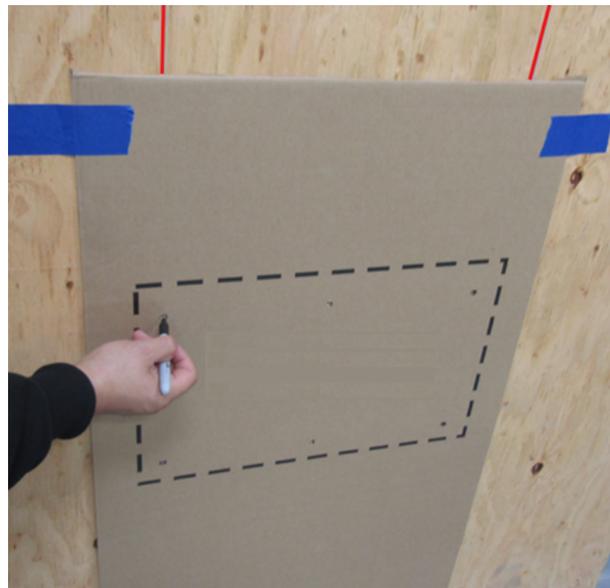
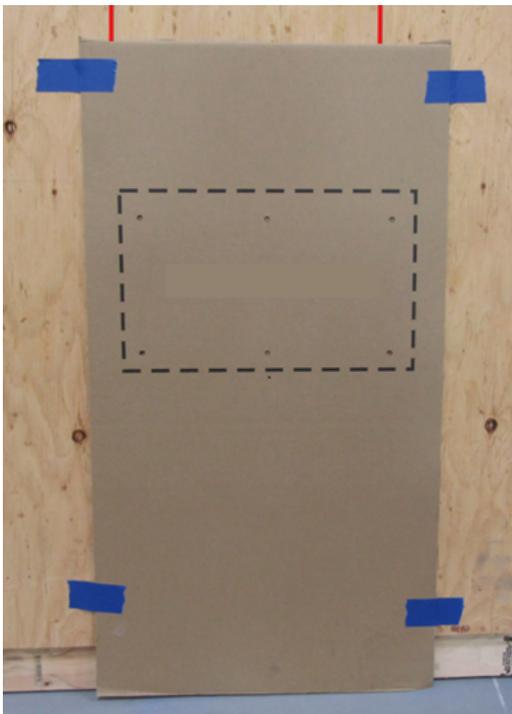
Safety Goggles



Safety Shoes

3 Installation:

- Step 1:
 - Locate and mark the studs using a stud finder.
 - Position the cardboard template provided with the battery so that its bottom edge is level and rests on the floor (for floor mounted installations), then secure it to the wall.
 - Verify that the mounting holes align with the center of the studs. If they do not, the four outer mounting holes on the battery bracket may need to be enlarged to match your stud spacing.

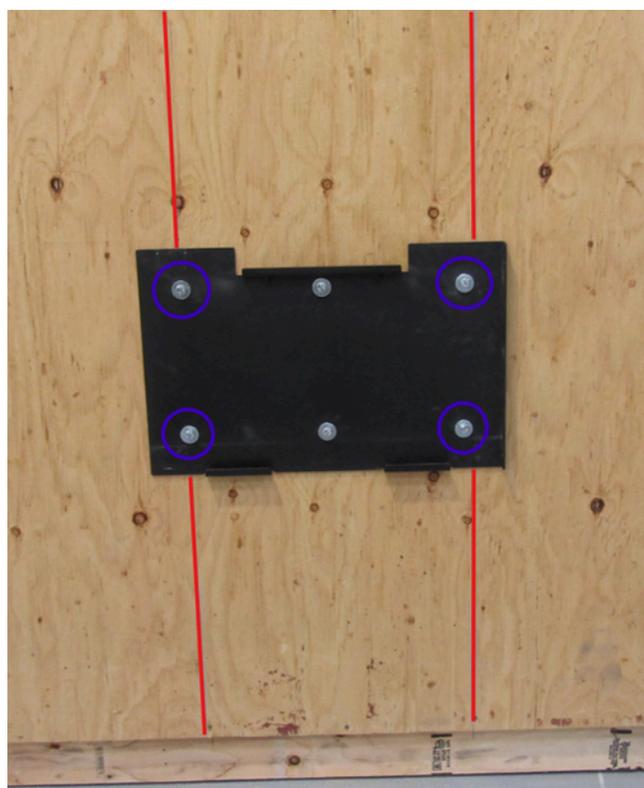
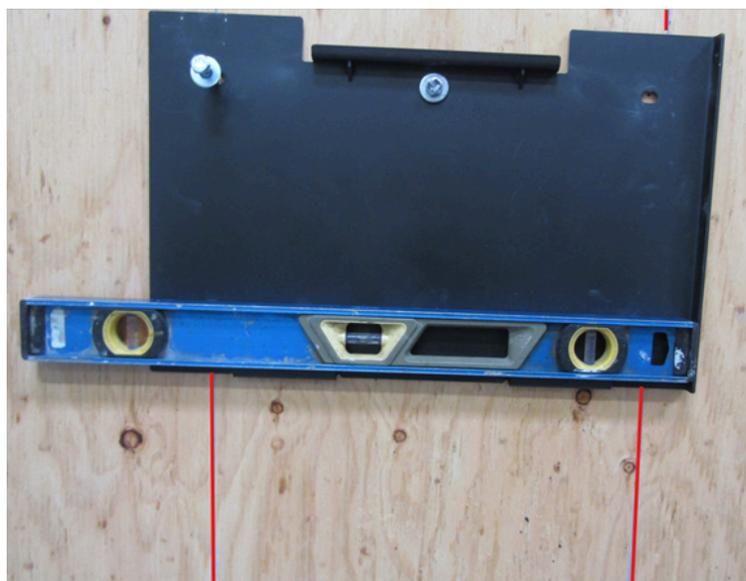


- Step 2:
 - Ensure the outer edge of the wall bracket is positioned 2 inches (50.8mm) from the stud centerline (blue arrow). This placement will help align the inverter bracket mounting holes with the studs.



Ensure the battery wall bracket is mounted level.

- The battery is delivered with its own mounting hardware. If you choose to use alternative hardware, ensure it is rated to support the full weight of the battery and that the screws achieve sufficient embedment into the stud. All four outer mounting screw locations must be secured into studs.
- If the existing stud spacing does not align with the mounting holes, you may enlarge the holes and use appropriate washers to ensure a secure installation.

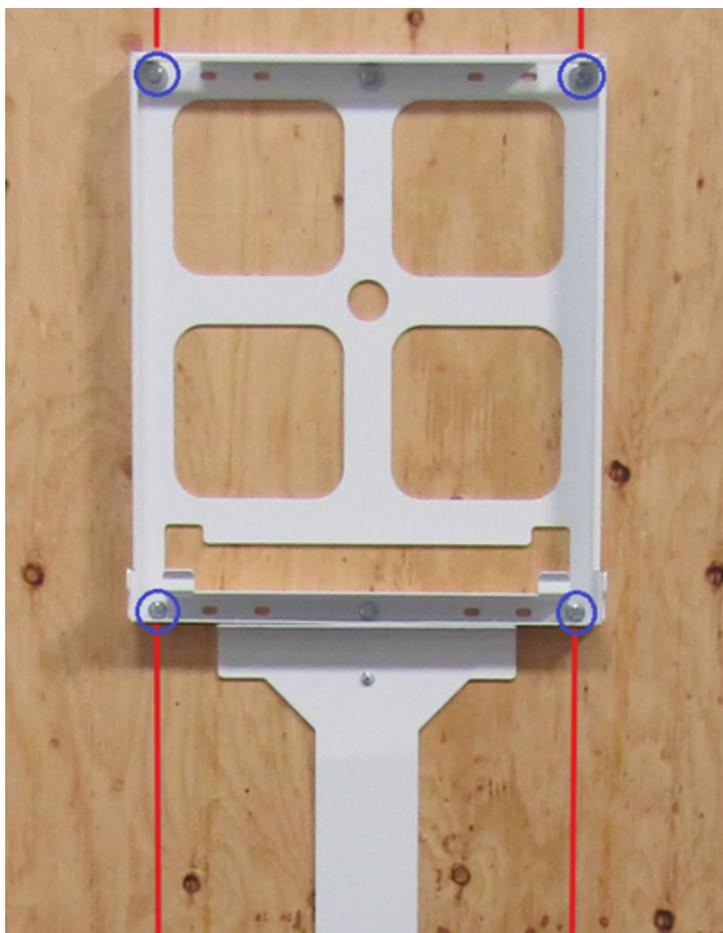


Note: If the battery is not floor standing, ensure all 4 lag screws are fully embedded into the wall studs.

- Step 3.
 - Install the inverter spacer bracket from the NV16KAC-Adapter Bracket Kit and secure it to the wall. This bracket is not load-bearing; it is used solely for proper spacing and inverter alignment.

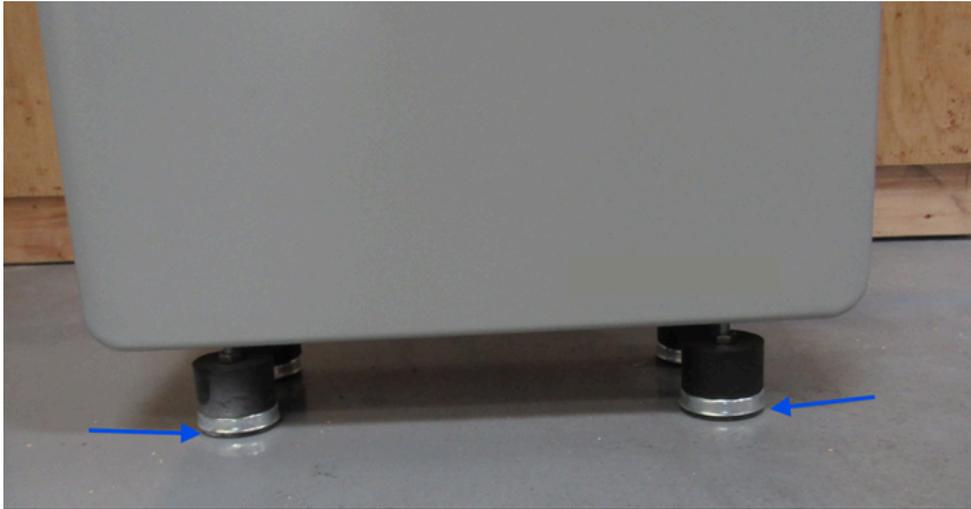


- Step 4:
 - Position the new inverter wall bracket onto the spacer bracket. The two small holes in the inverter bracket will align with the spacer bracket's alignment pins. Once in place, mark the mounting holes that line up with the wall studs.



- Fasten the new inverter wall bracket to the wall. Ensure all four lag screws are fully embedded into the wall studs to provide maximum support.
- Mounting hardware is included with the NV16KAC inverter; however, if you choose to supply your own, select lag screws that are properly rated to support the inverter's weight.

- After all wall brackets have been installed, proceed with the NVPlus16 Battery installation according to the provided instructions.
- For floor mounted installations, adjust the rubber feet so the battery rests firmly on them; ensure it is not suspended or “floating” above the floor.



- Step 5:
 - After the NVPlus-16 battery is mounted, lift the inverter onto the wall bracket. This step is best performed by two people to ensure safe handling and proper alignment.



- Step 6:
 - The inverter will press lightly on the rubber seal of the battery junction box to create a seal. Check with a flashlight to ensure a proper seal is formed.



- Step 7:
 - Install knockout plastic bushings as needed to protect the wiring from abrasion.