



DC Busbar Selection for Battery Combining

Introduction

When installing more than a single Fortress battery product (eVault Max or eFlex) it becomes necessary to combine the DC outputs of the individual batteries in parallel before entering the inverter(s) or charge controller(s).

Our recommended method is by the use of a bus bar. A bus bar is most commonly made of 110 electrical copper though sometimes aluminum is used in larger systems for cost or weight reasons. Bus bars are extremely common in telecom and industrial sites, where high power levels or dense power distribution lends itself to the increased efficiency of a bus bar. While bus bars can be custom made, using copper bars and standard metal working tools, we often recommend a variety of commercially available products to simplify installation and reduce cost.

Bus Bars - Commercial Off The Shelf

Blue Sea PowerBar 1000A - 12 Terminal Bus Bar - Bare w/Standoff

https://www.blueseas.com/products/1991/PowerBar_1000_-_12_3_8in_Terminal_Studs

Victron Lynx Power In - 1000A - 8 Terminal Bus Bar - w/Enclosure

<https://www.victronenergy.com/dc-distribution-systems/lynx-power-in>

Stormpower Ground Bus Bars - Multi-Terminal - 100A to 2000A - Bare w/Standoff

<https://stormpowercomponents.com/grounding-2/ground-bars-grounding-bus-bar-kits/>

Panduit Ground Bus Bars - Multi-Terminal - 500A to 1000A - Bare w/Standoff

<https://www.panduit.com/en/products/grounding-bonding/grounding-busbars-strips/grounding-busbars.html>

Blue Sea PowerBar 600A - 4 Terminal Bus Bar - Bare w/Standoff

https://www.blueseas.com/products/2104/PowerBar_600A_BusBar_-_Four_3_8in-16_Studs

Blue Sea PowerBar 600A - 8 Terminal Bus Bar - Bare w/Standoff

https://www.blueseas.com/products/2107/PowerBar_600A_BusBar_-_Eight_3_8in-16_Studs



Application Note

Bus Bars - *Custom Solutions*

Stormpower Ground Bus Bars - 100A to 2000A - Bare w/Standoff

<https://stormpowercomponents.com/grounding-2/ground-bars-grounding-bus-bar-kits/>



Application Note

About Fortress Power

Our mission is to provide compact, user-friendly, and affordable energy storage solutions using the latest technology for all homes and businesses. Fortress solar energy storage batteries can easily integrate with new and existing PV systems and work with a wide range of existing inverter and charge controller manufacturers for ease in system design.

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