

# Expansion Battery 2000

Installation and Technical Reference

## Overview

The VoltPak Expansion Battery 2000 adds 2,048 Wh of LFP capacity to any VoltPak 1000 or 2000 station. Connection is via the side-panel Anderson SB50 connector - no tools required for basic installation. The BMS automatically negotiates cell balance on connect.

## Electrical specification

<b>Chemistry</b>	LFP (LiFePO <sub>4</sub> )
<b>Nominal voltage</b>	25.6 V (8S)
<b>Capacity</b>	80 Ah / 2,048 Wh
<b>Connector</b>	Anderson SB50   gold contacts
<b>BMS</b>	Active balancing, UART passthrough to host
<b>Max charge rate</b>	0.5C from host station
<b>Cycle life</b>	>= 3,500 cycles to 80% capacity
<b>Weight</b>	45 lb / 20.4 kg

## Installation

1. Power off the VoltPak station (hold button 3 s until display clears).
2. Remove the side panel from the expansion port side (2x M3 Phillips screws).
3. Align the SB50 connector and press until it clicks.
4. Replace the side panel.
5. Power on. The display shows combined capacity within 10 s of boot.

## PCB access and hardware files

The expansion battery BMS board PCB files are included in [voltpak-hardware-open-source.zip](#). Housing STL files are available separately at [voltpak.com/support/mods](https://voltpak.com/support/mods). All fasteners are M3 Phillips throughout.