

GARS October 2023

Show and Tell

Presenters

- Paul Kelley – W4KLY
- Bill Cohron – WD4AMC
- Kevin Igarashi-Ball - W4KIB
- Mark Prichard – KN2TOD
- Kevin Scott – K4GTR

Paul Kelley – W4KLY

- Fold-up support system for POTA or other operations

Bill Cohron – WD4AMC

- Portable Solar Power Distribution Kit



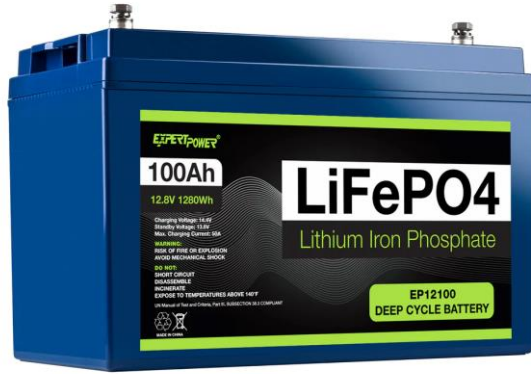
DIY LiFePo4 Battery Box

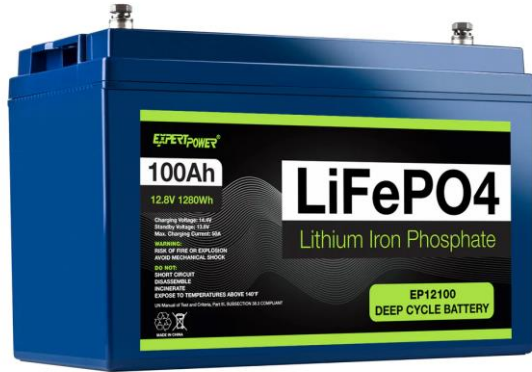
Kevin Igarashi-Ball / W4KIB

Problem

- I'm an avid camper, hiker, and backpacker
- I'm a ham
- I've got a lot of USB chargeable devices
- I have 12 volt compressor fridges for overlanding and camping

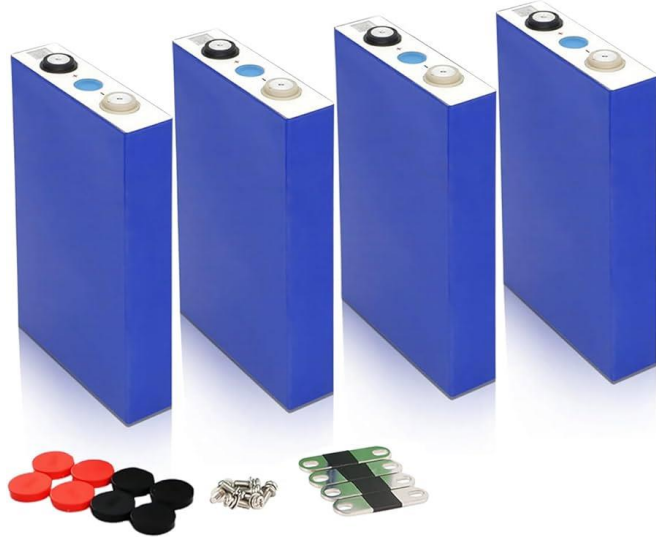




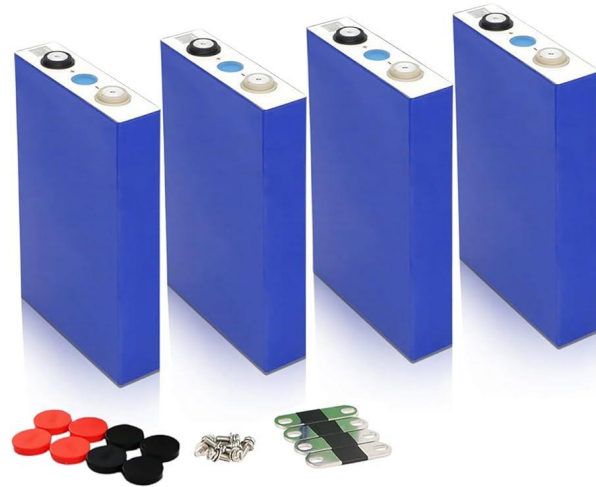


****Premade batteries generally have additional padding and follow standard sizes**





My battery box



****Mine is 100 amp**

Pros

- More capacity in same package size
- Additional safety feature - overall circuit breaker and individually fused circuits
- Customized - USB outlets and powerpoles are sized for my exact needs
- Show off factor

Cons

- Minimal to zero cost savings (if buying Grade A cells)
- You need to know what you are doing; you are dealing with electricity after all
 - Minimal
 - Understand series vs parallel and how to top-balance
 - Consult a wire size / amp chart and oversize

Resources

- Suppliers

- <https://www.18650batterystore.com/> - LiFePo4 cells (local - Stockbridge)
- <https://batteryhookup.com/products/12v-lifepo4-smart-bms-w-low-temp-cutoff> - BMS (get the optional bluetooth module)
- <https://www.amazon.com/65W-12V-USB-Outlet-Laptop/dp/B09YTWNCM2> - 65w USB PD Panel Mount
- <https://powerwerx.com/panelpole-panel-mount-powerpole-black-dual> - Powerpole Dual Panel mount

- Videos

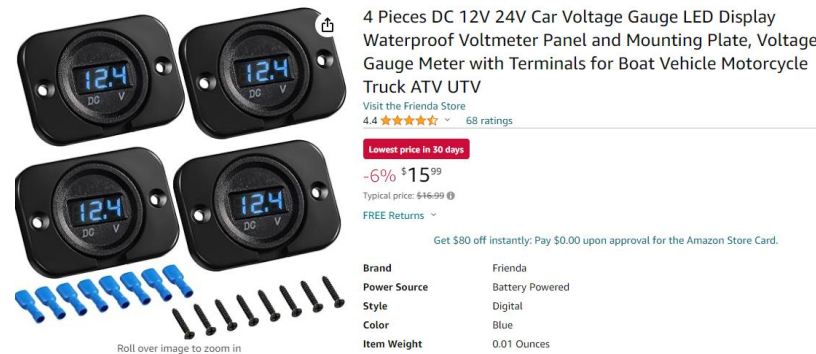
- <https://youtu.be/uN1h0XlpfTg?si=xaRvXBZFP7wMOJbD> - Building a DIY LiFePo4 Battery Box
- <https://www.youtube.com/@WillProwse> - One of the go to YouTubers on batteries and solar

Mark Prichard – KN2TOD

- Pi-Star Mods

Kevin Scott – K4GTR

Five Output DC Switch with Anderson PowerPoles



Nilight 5 Gang 3 Pin Rocker Switch Panel Waterproof On-Off Toggle Switches for Car Vehicle Trailer Truck SUV Marine Boat RV Ship 12V/24V 20A, 2 Years Warranty

Visit the Nilight Store

4.6 ★★★★★ 2,099 ratings | 31 answered questions

100+ bought in past month

Deal

-11% \$12.96

List Price: \$14.49

FREE Returns

Thank you for being an Amazon customer. Get \$50 off: Pay \$0.00 \$12.96 upon approval for Amazon Visa.



Home › DC Power Products › Anderson Powerpole Connectors



30 Amp U
Anderson

Recommend
wire. Unasse
in any config
roll pin prev
sliding apart

Select

★★★★★
Read All Rev

1 Enter quantity and add to cart

Sets	SKU	Availability	Price
10	PP30-10	In Stock	\$12.99

Plastic box - \$5
16 Gauge Zip Cord - \$6
Grounding Clamp - \$4

Plus a lot of Accessories

- Y-cables
- Extension cables
- 12 Volt Lights
- Battery adapter cables
 - All batteries have two sets of Anderson PowerPoles; one for charging, one for discharging



Actual Use



Six Output DC Switch with Anderson PowerPoles

- Or if you prefer to buy:
From ebay - \$60

12V 45A Compatible With Anderson Powerpole
Power Distribution 1 input-6 output



[thecrazyham](#) (5735)

100% positive · [Seller's other items](#) · [Contact seller](#)

<https://www.ebay.com/itm/185348739074?hash=item2b27a55002:g:HJcAAOSwLf9iNp98&amdata=enc%3AAQAIAAAA0G PJMDZT7jL2QplfbLigEqI8za5nCl5ybJ3Qk%2Fm%2Bn7kN%2Fr KSSyuyUdM9YK%2Ftv%2FpaLN3j2O20tx%2BKf7SAvbx9z1V WVHTM%2F6gktU40n8l4v%2BQxCPlvnFqLiRFjEPjmwznTT4u gSOB5vxsZiOAdeJ3dsa4hDCOIakcDFBovM8aEzkaUEFlv%2Bt0 qQE%2BqOcX%2FYq1E5jRJivIVjrr5GujRJhi9dNzGBRVWK0cLe NaZiFKqL4ou9kMapoQBXyqSQ%2FdJBumSy1ODEZKQ0Jof7SR DOko%3D%7Ctkp%3ABk9SR6TSi5HgYg>



Or if you prefer a non-switched coupler



RigRunner 12 Volt Fused
Panel fits Anderson
Powerpole plugs Side entry

New

US \$26.99

Was US \$29.99 Save US \$3.00 (10% off)

Free returns

Quantity: 1



eBay Money Back Guarantee

Get the item you ordered or your
money back.

<https://www.ebay.com/itm/153147334217?hash=item23a84ade49:g:WlwAAOSwhhFbe3cD>