Home Brew Show and Tell



Building A Portable Ham Radio 13V LIFePO4, 105Ah Battery Pack

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Design Goal: Build an economical 4+ hour Field battery Pack

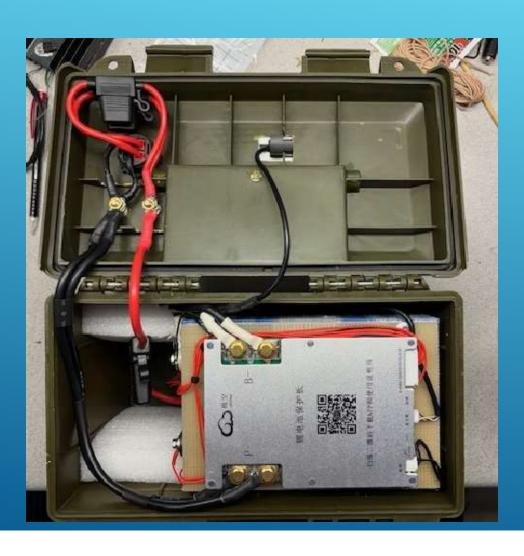
BILL OF MATERIALS

LIFePO4 13V Battery BOM								
Item	Qty	Cost	Sub Total	Source				
EVE LEIGE Calle		£20.00	6157.00	10/50 D		(C - - 1)		
EVE LF105 Cells JK BMS 4-8S (200A)	1	\$39.00 \$159.00		Amazon	tery Store	(Sold out)		
JK BMS 2.5" LCD Monitor Screen	1	\$31.49		Amazon				
	·	40	40	,				
In-line 8 Gauge AWG Waterproof Fuse Holder	1	\$11.00	\$11.00	Amazon				
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2 Pcs 1/4" Remote Battery Terminal Stud	1	\$2.04	\$2.04	Amazon				
Powerwerx Panel Mount Housing for Two	1	\$29.00	\$29.00	Amazon				
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Anderson Powerpole Connectors with a Weather Resistant Cover								
10 AWG Inline Fuse Holder with 40 AMP ATC Blade Fuses (4pack)		610.00	610.00					
	1	\$10.00	\$10.00	Amazon				
50 Cal Plastic Ammo Box (Must be actual mil size inside dimensions)	1	?	?	?	Original A	Mfg discon	tinued	
Battery Charger - your choice	1							
	Total		\$400)				

BATTERY BOX VIEWS



BATTERY BOX VIEWS



- Conclusion: Design goals met.
- Designed a year ago, battery costs have deceased as a result It would be prudent to do a build vs. buy study before buying parts.
- Bottom line it was a fun project.

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