Materials Needed/Building Instructions

External A1 Battery [6S2P Setup]

IMPORTANT:

*Video Being Followed: https://www.youtube.com/watch?v=NgNddKpP9mw * Another Video Same Build More instruction: https://www.youtube.com/watch?v=gro976ya41q

A1 Battery Pack Specifications

Battery

Capacity

Voltage

Battery Type

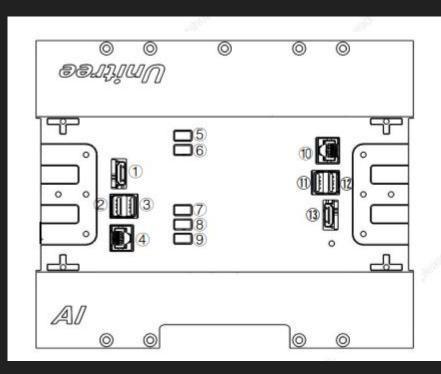
4200 mAh

21.6 V

Lithium-ion 6S



A1 Interface Diagram



- 1. TX2 HDMI
- 2. TX2 USB3.0
- 3. TX2 USB2.0
- 4. Ethernet Interface 1
- 5. Power Input 24V
- 6. Power Input 24V
- 7. Power Output (5V, 2A)
- 8. Power Output (12V, 2A)
- 9. Power Output (19V, 2A)
- 10. Ethernet Interface 2
- 11. MiniPC USB2.0
- 12. MiniPC USB3.0
- 13. MiniPC HDMI

Port 5 will be used for connecting the external battery.

6S2P Built Battery Each Battery: + ICR18650 2000mah 3.7v TP LI-ION MH46259

WL312The video below shows A1 being powered from a power supply.

A1 External Battery Video



H Nickel Strips - Ease of Assembly The ones we already have are weaker



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2P Nickel Plating Strip 0.15x27mm (16.4ft/roll) Spacing 20.25mm used for 2 Parallel 18650 Batteries Spot Welding DIY 18650 Battery Pack

Brand: JichuET
4.6 ★★★★★ (118)

\$15⁹⁹

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Save up to 7% with business pricing. Sign up for a free Amazon Business account Apply now and get a \$100 Amazon Gift Card upon approval of the Prime Store Card, or see if you pre-qualify with no impact to your credit bureau score.

Size: 0.15x27mm(5M)

0.15x27mm(5M)

\$15.99 FREE Delivery Tomorrow 0.15x8x100 mm(100PCS) \$9.99 FREE Delivery

Tomorrow

Material Nickel
Brand JichuET
Color Silver

Shape Rectangular
Item Diameter 27 Millimeters

About this item



6S 14A/20A 25.2V-26V PCB BMS Protection Board for 6 Pack 18650 Li-ion Lithium Cell Module Arrival -For the 6S2P build-



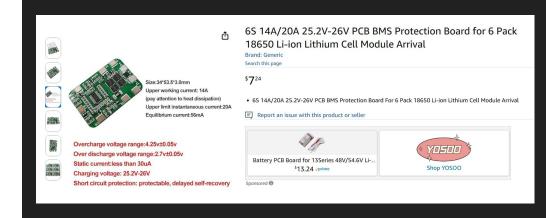
Overcharge voltage range:4.25v±0.05v

Over discharge voltage range:2.7v±0.05v

Static current:less than 30uA

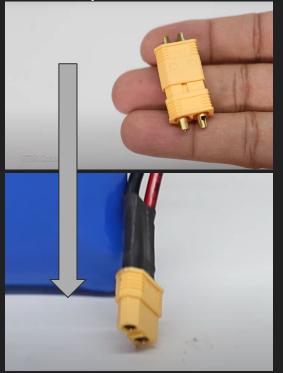
Charging voltage: 25.2V-26V

Short circuit protection: protectable, delayed self-recovery



Male To Female Pair Attachment XT60

Detaches to to become bottom photo below this



10474			In-Stock: 3,070			
	DigiKey Part Number	1568-10474-ND	Can ship immediately QUANTITY			
GC GC	Manufacturer	SparkFun Electronics				
	Manufacturer Product Number	10474				
	Description	XT60 CONNECTORS MALE/FEMALE PAIR				
Image shown is a representation only. Exact specifications should be obtained from the product data sheet.	Manufacturer Standard Lead Time	12 Weeks	A	Add to List Add to Cart		
	Customer Reference		All prices are in USD Bulk			
	Detailed Description	- Connector				
	Datasheet	Datasheet	QUANTITY	UNIT PRICE	EXT PRICE	
	EDA/CAD Models	10474 Models	1	\$2.50000	\$2.50	
roduct Attributes				Manufacturers Standard Package		

Female To DC



About this item

- Compatible Devices: Works with FPV monitors for power supply
- . High Current Rating: 1.5 amp output for fast charging
- Durable Construction: Made from sturdy plastic with metal connectors
- · Quick Connector: 5.5mm and 2.5mm jack plugs for easy use
- Compact Size: Small 60mm x 60mm footprint saves space
- > See more product details

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Can it handle high power demands?

Is it easy to connect?

Does it work with other devices?

Ask something else

Amass XT60 XT-60 Female to DC 5.5/2.5mm Jack Power Adapter for FPV Monitor Power

Brand: Generic

4.1 ★★★☆★ (33) | Search this page

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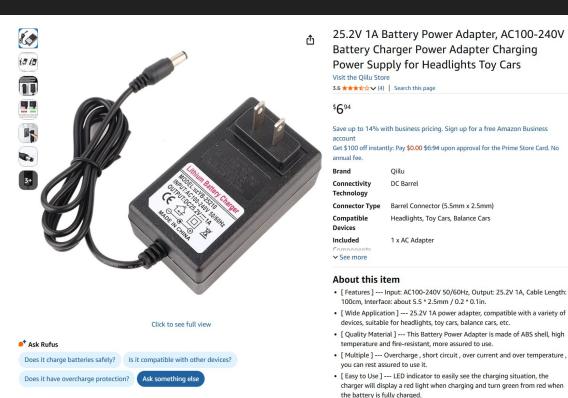
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Compatible Devices Monitor Specific Uses For Product Monitor

Connector Type XT60, 5.5mm/2.5mm DC

Color Black Brand Generic

25.2V Power Supply Adapter Charger Lithium ion Battery Charger Power Adapter with Indicator Light



> See more product details

Slow (1 Amp) Charger

25.2V 1A Battery Charger Power Adapter Specification:

- · Type: Battery Power Adapter
- Material: ABS
- Interface: about 5.5 * 2.5mm / 0.2 * 0.1in
- · Output current: 1A
- · Weight: Approx. 94.4g

Reference Video - (Custom Adjustments Will Be Implemented

Reference Video:

https://www.youtube.com/watch?v=NgNddKpP9mw