



PowerUrur S12200 Rechargeable Super Capacitor Deep Cycle Lithium User Manual

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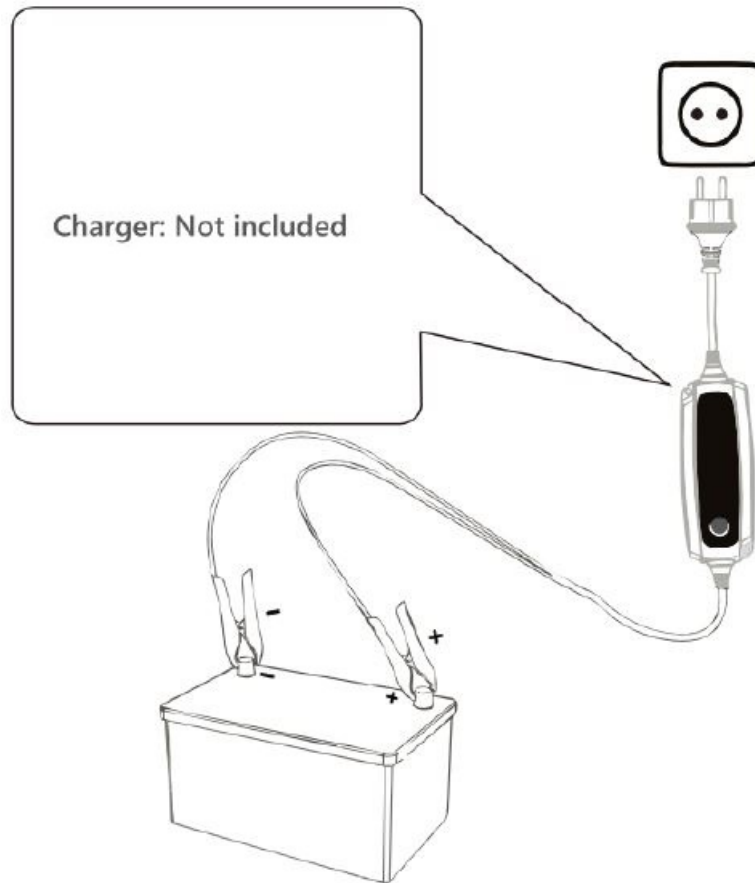
PowerUrur

PowerUrur S12200 Rechargeable Super Capacitor Deep Cycle Lithium



Use YourS12200

- Recharge the S12200
- **Charger:** Not included



- Due to transportation restrictions, the PowerUrus battery will be charged to about 30% SOC before delivery. Recharge it fully before the first time use.
- To preserve battery lifespan, use and recharge at least once every 3 months!
- The lithium battery charger is highly recommended, although the universal SLA battery charger is also applicable.

Specifications

#	Item	Parameter
1	Nominal Output Voltage	12.8V
2	Nominal Capacity	200Ah @ 0.5C
3	Actual Capacity	≥200Ah @ 1C
4	Internal Resistance	≤20mΩ
5	Charging Voltage	14.6V
6	Max Charging Voltage	14.6V
7	Discharge Cut-off Voltage	10V
8	Self Discharge Rate (Per Month)	≤3% (25°C)
9	Continuous Charge Current	100A
10	Continuous Discharge Current	200A
11	Charging Protection Temperature	0°C(±5°C) / 32°F(±9°F)

12	Operating Temperature	Charge 32 ~ 122°F / 0 ~ 50°C / 45 ~ 85% RH Discharge 14 ~ 167°F / -10 ~ 75°C / 45 ~ 85% RH
13	Storage Temperature	1 Month -4 ~ 113°F / -20 ~ 45°C / 45 ~ 85% RH 1 Year -4 ~ 77°F / -20 ~ 25°C / 45 ~ 85% RH
14	Size (MM / IN)	520 x 240x 220 MM /20.5 x 9.5 x 8.6IN
15	Weight (KG / LB)	26.5KG / 58.5 LB

Applications



Motorhome



Houseboat



Travel Trailer



House



Trolling Motor



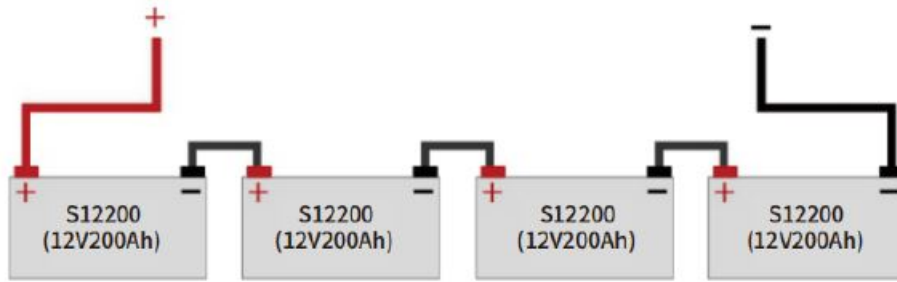
Dump Trailer

Suggest charging the PowerUrus battery periodically to the regular battery storage voltage (12.8V-13.24V, 30 50%

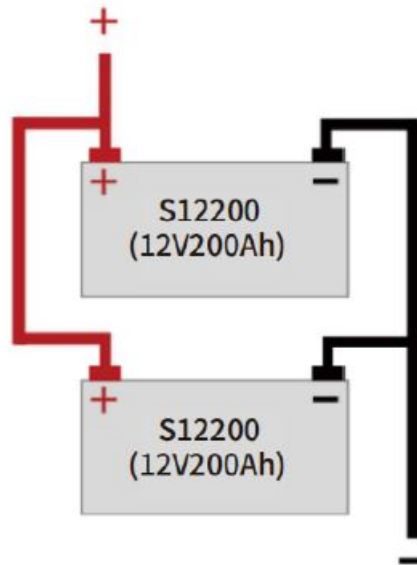
SOC) to avoid over-discharge.

Wiring Diagram Series & Parallel

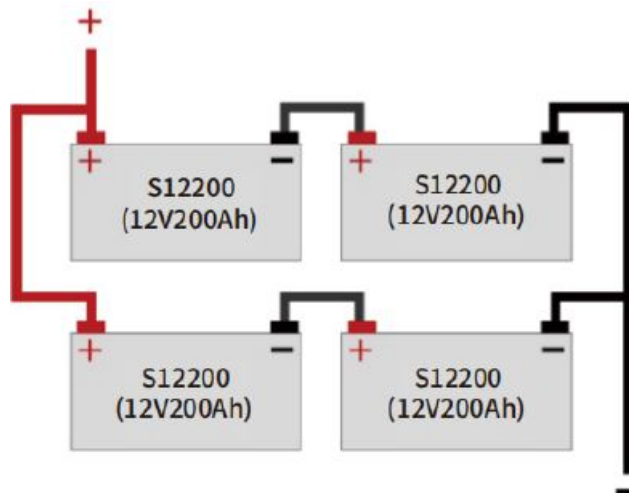
1. Series Connection (48V200Ah)



2. Parallel Connection (12V 400Ah)



3. Series & Parallel Connection (24V 400Ah)



- All PowerUrus batteries must be separately recharged fully before being connected in series or parallel.
- If connected in both series and parallel, make sure to connect the PowerUrus S12200 batteries in parallel first, then connect the parallel PowerUrus S12200 batteries in series.
- For series connection, all batteries must be charged or discharged at the same time for proper functionality.
- Do not connect more than four PowerUrus S12200 in series.
- Do not recommend connecting more than two PowerUrus S12200 batteries in parallel.
- If connected in both of series and parallel, recommend connecting the maximum four PowerUrus S12200

batteries in series and two PowerUrus S12200 batteries in parallel (Max 4S2P).

- Do not connect the PowerUrus S12200 with the PowerUrus batteries in different models or the batteries from other manufacturers.

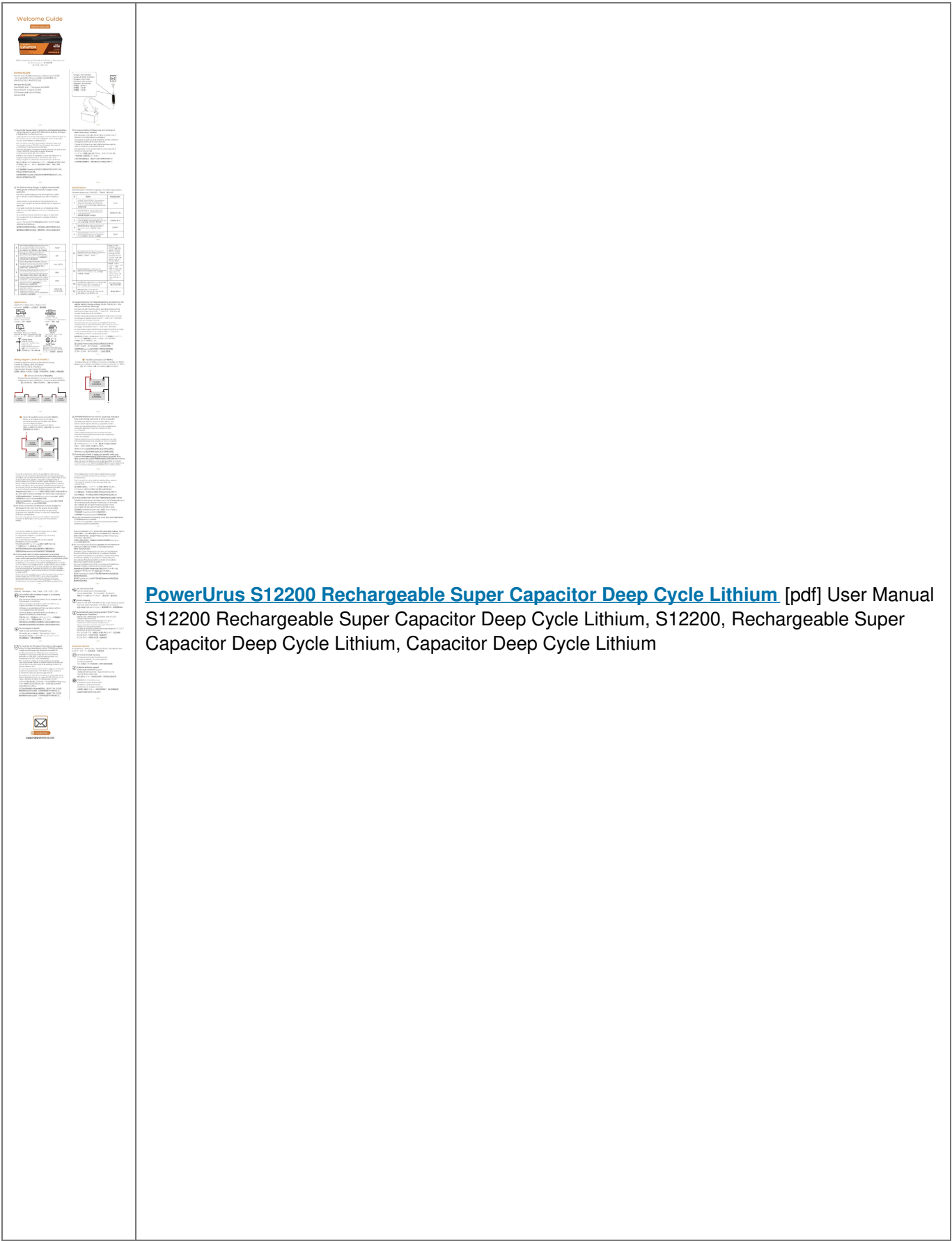
Attention

- Use a certified lithium battery charger or SLA battery charger to recharge.
- Do not expose to liquids.
- Do not disassemble.
- Avoid dropping.
- Automatically stop charging under 0°C/32°F (Low- temperature Protection).
- To maximize the life span of the battery cells, suggest using the Power Urus battery within 70% DOD, constant charge and discharge rate should not exceed 0.2C.

Customer Service

- 24-month limited warranty
- Lifetime technical support
- Contact us
support@powerurus.com.

Documents / Resources



Welcome Guide



1. Safety Precautions

2. Product Overview

3. Installation

4. Operation

5. Maintenance

6. Troubleshooting

7. Specifications

8. Warranty

9. Contact Us

10. Appendix



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20. Appendix

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Capacitor Deep Cycle Lithium, Capacitor Deep Cycle Lithium