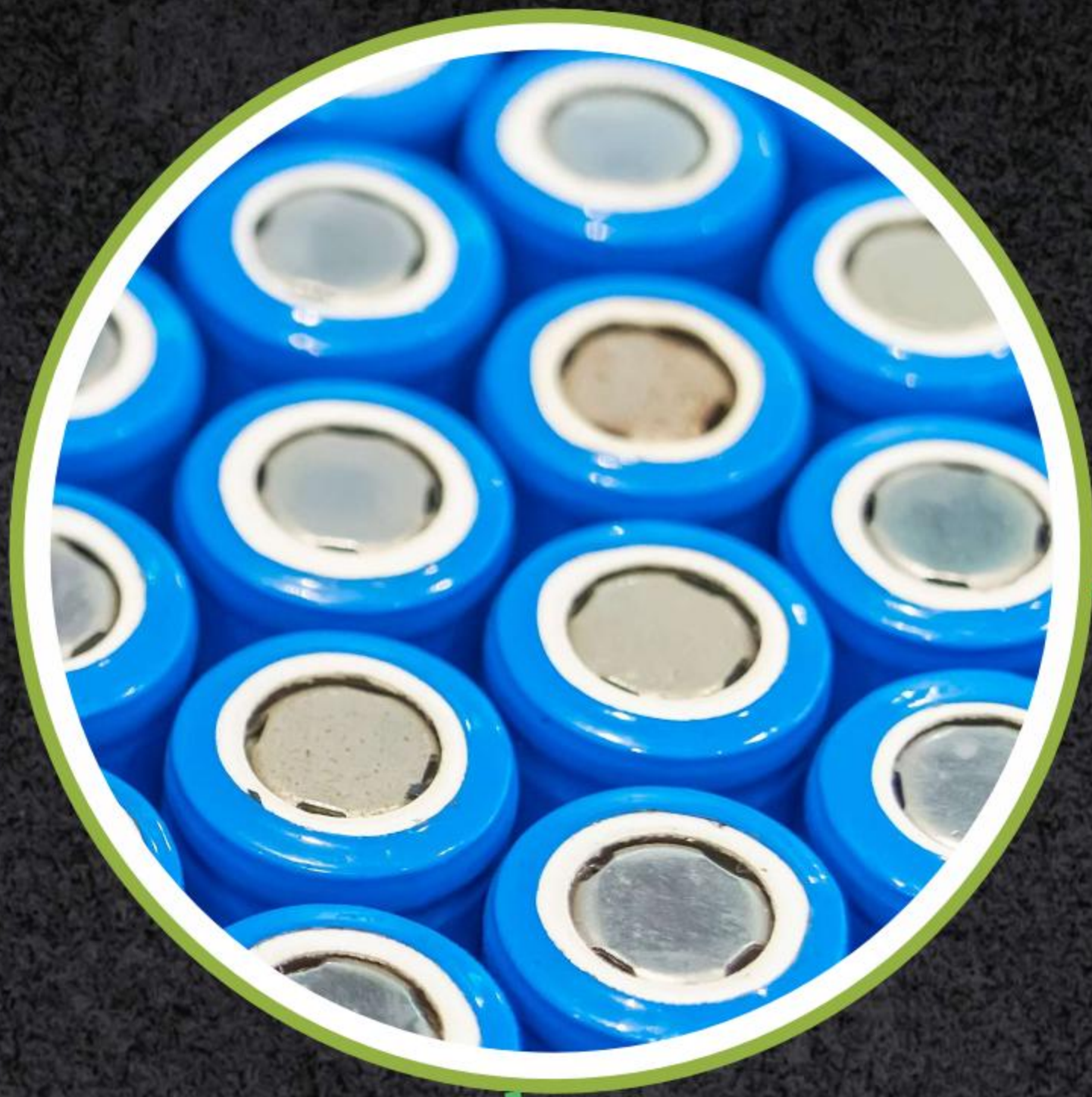


# Sodium-Ion Battery

- Manufactured with grade A sodium-ion cells, it ensures excellent cycle expectancy under varied and high loads.
- Suitable for domestic use and home inverters



**3,000 – 6,000 cycle Times @  
different DOD 8 years lifetime**





# 12V 200Ah Sodium-Ion Battery

Low – cost materials and the abundant availability of sodium



High  
Performance



Environmentally  
Friendly



Cost  
Effective



Enhanced  
Safety



# 12V 100Ah Sodium-Ion Battery

Low – cost materials and the abundant availability of sodium



High  
Performance



Environmentally  
Friendly



Cost  
Effective



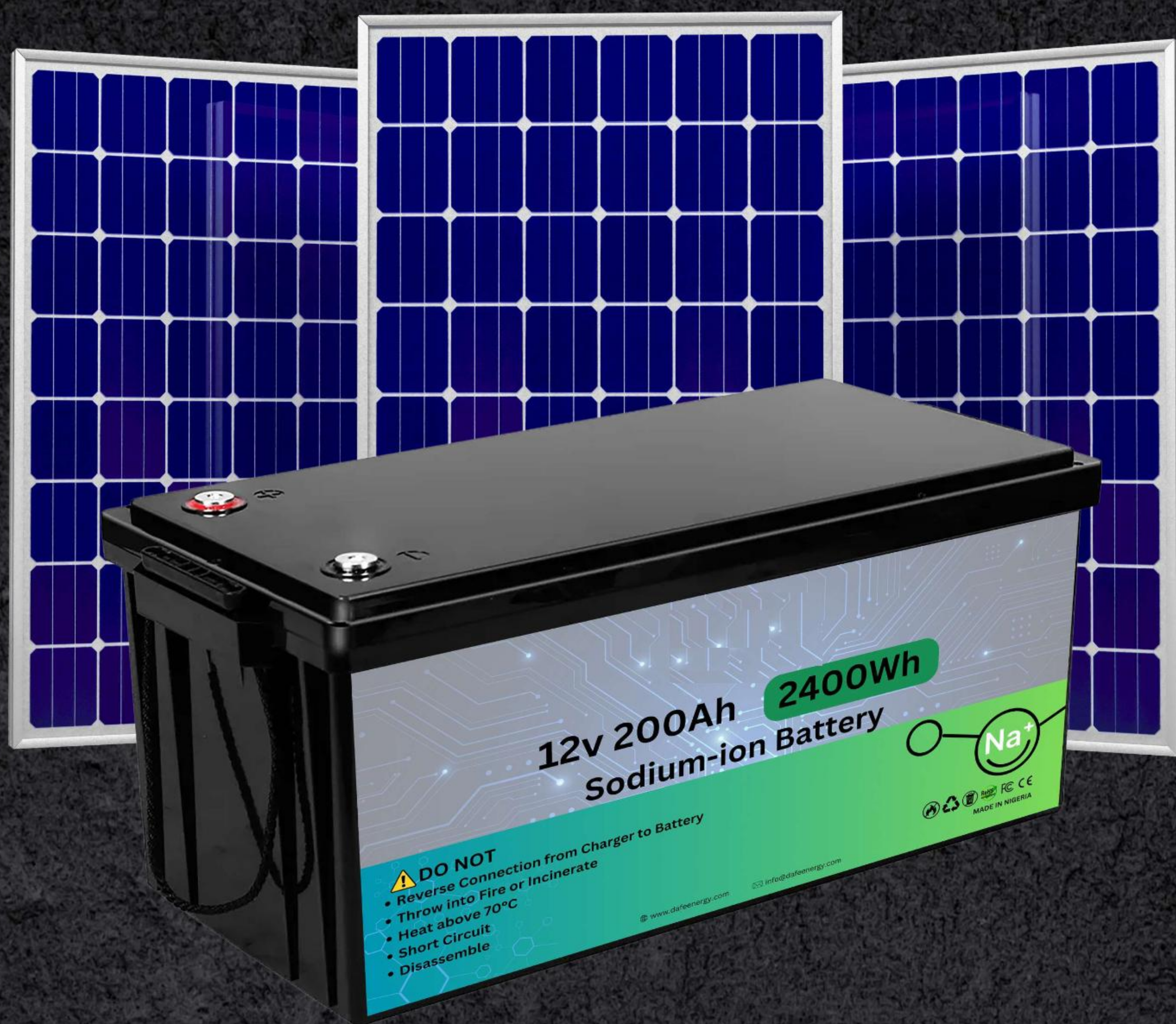
Enhanced  
Safety



# High Performance in Extreme Temperatures



**Excellent Capacity & Energy Retention Rates**



**12v 200Ah 1200Wh  
Sodium-Ion Battery**



**12v 100Ah 1200Wh  
Sodium-Ion Battery**



# Outdoor Back Up



**Laptop(58.2W)**

**41.2 Hours**



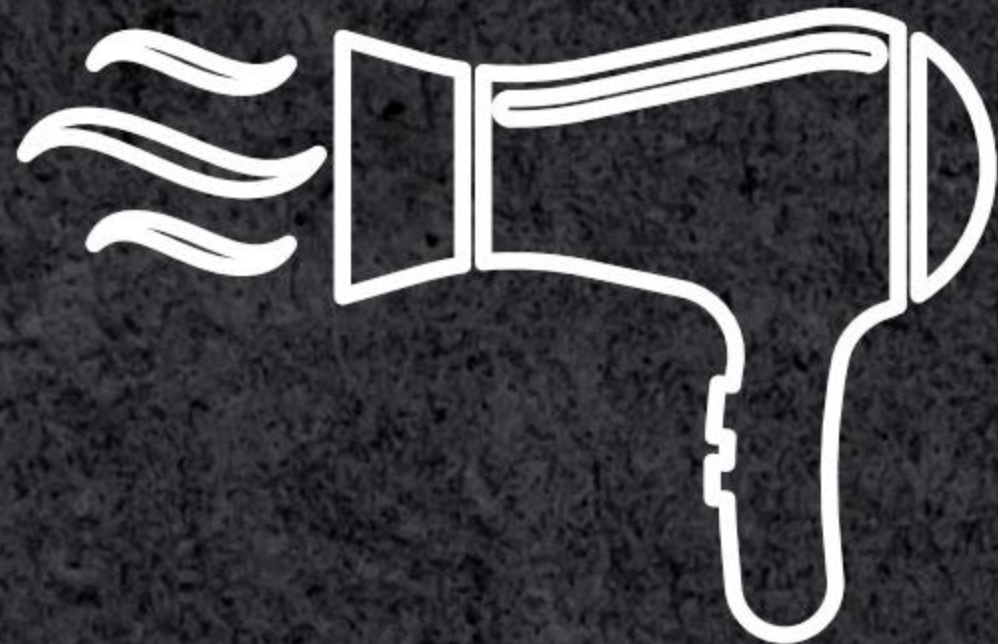
**Electric Grill(1000W)**

**2.4 Hours**



**Portable Freezer(45W)**

**53.2 Hours**



**Hair Dryer(1875W)**

**1.2 Hours**



**Foldable Kettle(700W)**

**3.2 Hours**

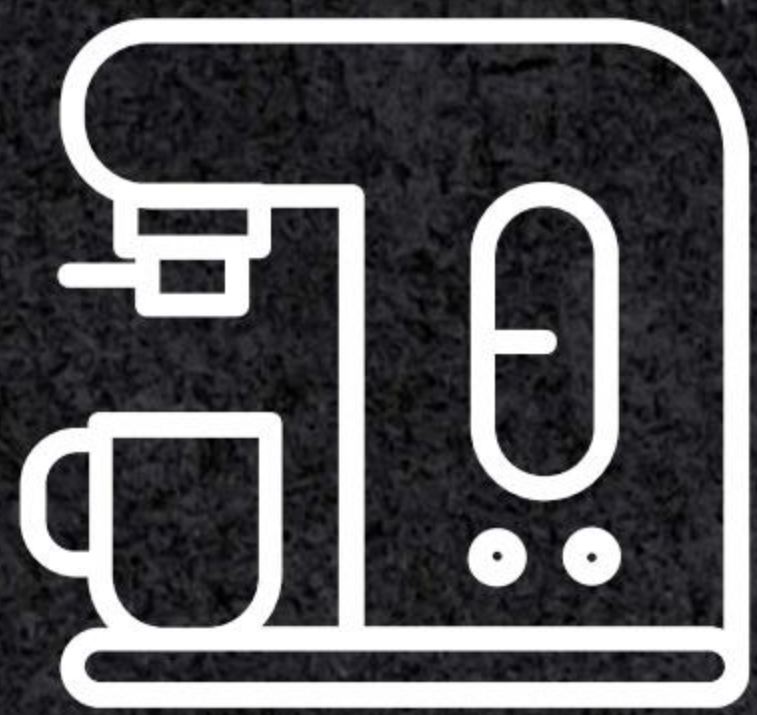


**Blender (1000W)**

**2.4 Hours**

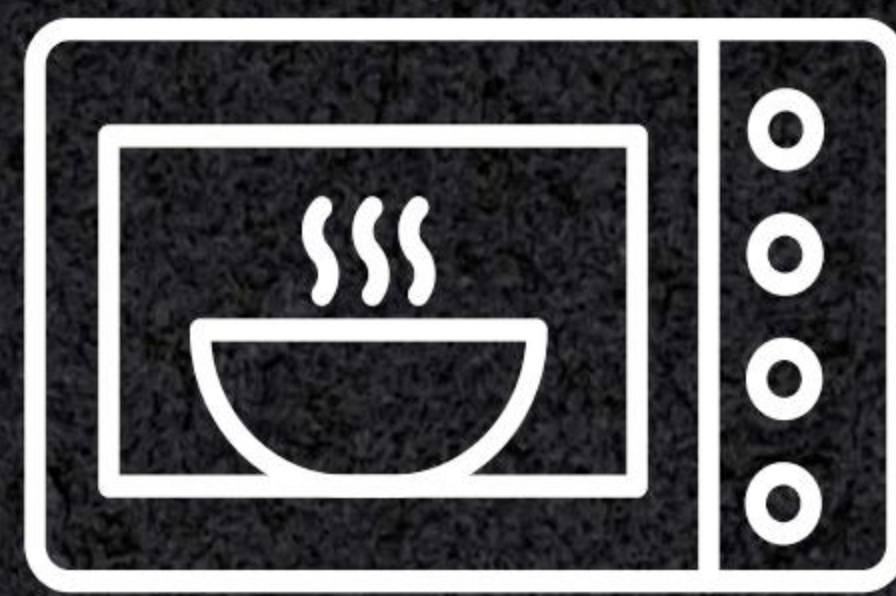


# Home Back Up



**Coffee Maker (1000W)**

**2.4 Hours**



**Microwave(700W)**

**3.4 Hours**



**Refrirator(360W)**

**6.6 Hours**



**TV (105W)**

**22.8 Hours**



**Washing Machine(1200W)**

**2 Hours**



**Air Fryer(1000W)**

**2.4 Hours**



# Reliable BMS System | Ultra-Safety

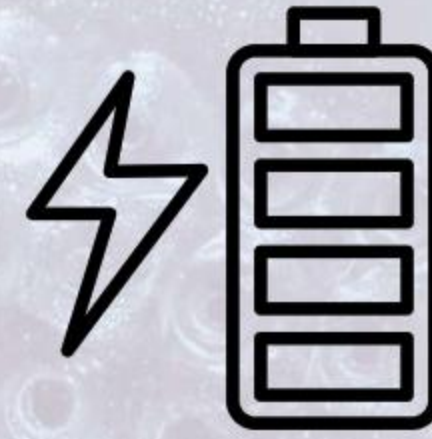
Our internal Battery Management System (BMS) offers comprehensive protection for the battery and ensures advanced management of charging and discharging.



**Charge Protection**



**Discharge Protection**



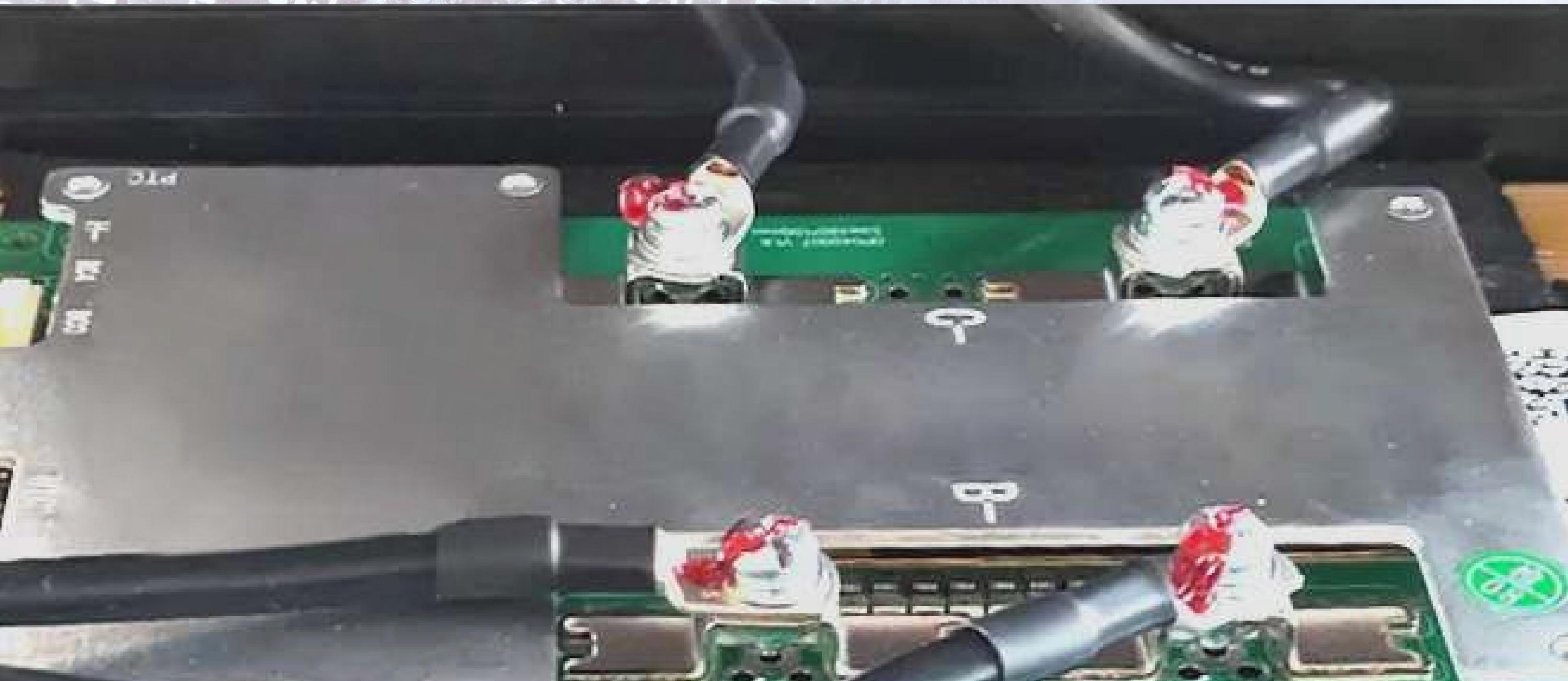
**Battery Cell-Balancing**



**Thermal Management**



**Data Transmission**



**For detailed parameters of the BMS, please contact our team on [info@zolaireenergy.com](mailto:info@zolaireenergy.com)**

**\*Note: This image of the BMS is for reference only. The specific model and batch may vary.  
Please refer to the actual product for accuracy**



# SCALABLE FOR LARGE-SCALE PROJECTS

**Golf Cart**



**RVs**



**12v 100Ah 1200Wh**  
**Sodium-ion Battery**

**DO NOT**  
• Reverse Connection from Charger to Battery  
• Throw into Fire or Incinerate  
• Heat above 70°C  
• Short Circuit  
• Disassemble

**Na<sup>+</sup>**

MADE IN NIGERIA

**Trucks**



**Boats**

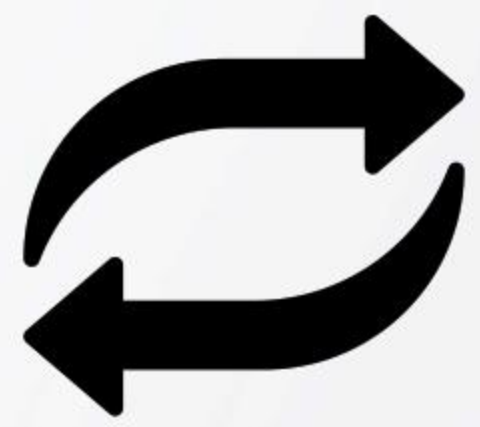






# Caution

## Do Not



**Reverse Connections  
from Charger to  
Battery**



**Throw into Fire  
or Incinerate**



**Short Circuit**



**Disassemble**



**Heat above 80  
°C**






### Series/Parallel Tips

- The same model (capacity & voltage & BMS)
- The same brand
- Recent purchases (within 3 months)



# Sodium-Ion Battery VS other batteries

10 Reasons You Should Purchase our Sodium-Ion Batteries

|                                 | <div>Sodium-Ion Battery</div> <div></div> | <div>LEAD/AGM/SLA</div> <div></div> | <div>Lithium ion Battery</div> <div></div> |
|---------------------------------|---|--|---|
| Environmentally:                | HIGH  | LOW  | MEDIUM  |
| Cost Effectiveness:             | HIGH  | LOW  | MEDIUM  |
| Operation<br>Temprature Range:  | HIGH  | MEDIUM   | MEDIUM  |
| Voltage Range:                  | HIGH  | LOW  | MEDIUM  |
| Security:                       | HIGH  | HIGH   | MEDIUM  |
| Zero voltage<br>Transportation: | YES   | NO   | NO  |
| Low Temperature<br>Performance: | GOOD  | NORMAL   | LOW   |
| Cycle Life:                     | HIGH  | LOW  | HIGH  |
| Energy Density:                 | MEDIUM  | LOW  | HIGH  |
| Scope of<br>Application:        | HIGH  | LOW  | MEDIUM  |



# 3 Ways to Recharge The Battery

Due to the difference in charging voltage, it is recommended to choose only one method of charging at a time.

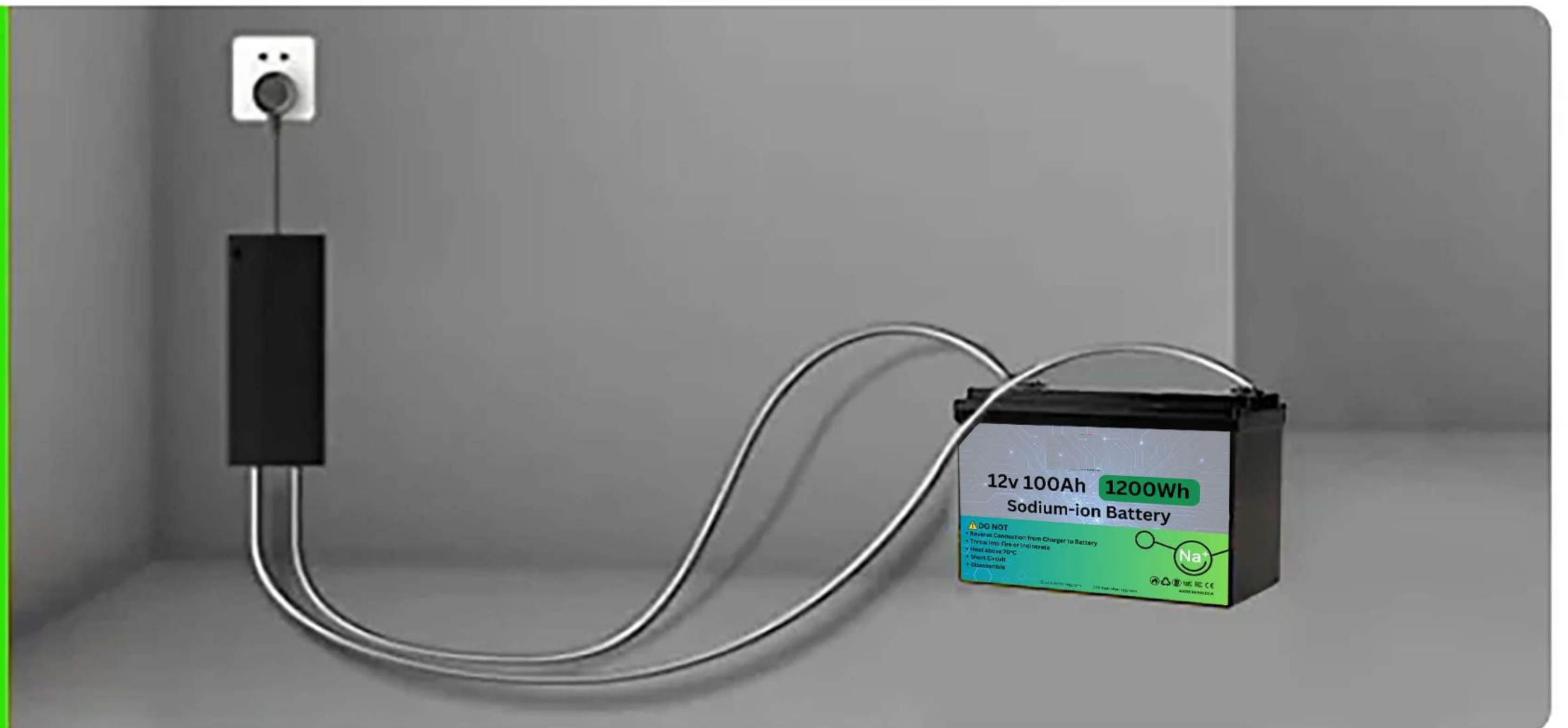


## Generator

Add a 20A DC to DC Charger:  
**5hrs**

## Charger

12V 20A Sodium ion Battery  
Charger: **5hrs**



## Solar Panel + MPPT

Recommend  $\geq 400W$  Within  
**1 sunny day**



# Contact Us

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 +234-817-704-2673

 [www.zolaireenergy.com](http://www.zolaireenergy.com)

 **Factory: Plot 5, Command Junction.  
Opposite Marigold hotel, Kaduna.**

