



FREERANGE INDUCTION BATTERY

USER MANUAL

SKU/Battery Model: DC-48V-10AH
Battery Material: Lithium Ion
Voltage: 48V
Rated Capacity: 9.8Ah



SPECIFICATIONS

Battery Parameters	
Nominal Voltage	48V
Max Charging Voltage	58.1V
Max Charging Current	5A
Rated Capacity	9.8Ah
Discharge Cut-Off Voltage	44.4V
Max Continuous Discharge Current	25A
Part No.	A03-044-00

Protection Circuits

For safety, the battery pack is equipped with built-in protection circuits, including: (see right)

- Overcharge Protection
- Over-discharge Protection
- Overcurrent Protection
- Short Circuit Protection
- Temperature Protection

Dimensions	12.9" x 4.33" x 2.33"
Warranty	12 months

USAGE INSTRUCTIONS

1. **Activation:** The IH-Cooker lithium battery pack is shipped in a dormant state (completely inactive) for safe transportation. It must be charged with the dedicated charger to activate it before first use. Fully charge the battery before initial use (this will take 2–3.5 hours).
2. **Voltage Range:** The battery supports operation between 58V and 44.5V $\pm$ 0.5V. When the voltage drops below 44.5V, the battery will enter low-voltage protection mode and go into hibernation to prevent over-discharge.
3. **Storage Recommendation:** If the induction cooker will not be used for an extended period, the battery pack should be removed. Avoid placing the battery in outdoor environments; instead, store it indoors to prevent exposure to direct sunlight and rain, which could impair performance.
4. **Storage Conditions:** The battery pack should be stored in a dry and ventilated environment with a temperature range of 0°C~40°C. (32°F ~ 104°F)
5. If the battery does not charge immediately after use, allow it to cool down for a while, and it will begin charging automatically.

STORAGE GUIDELINES

1. If the battery will be stored for an extended period, charge it to 60%–80% capacity and recharge it periodically (every THREE months).
2. High temperatures accelerate battery degradation. For storage periods longer than one month, the battery must be kept in an environment between 0° C and 40° C (25° C is ideal). 32°F and 104°F (77°F is ideal)



PRECAUTIONS FOR USE

Below are important precautions for using lithium battery packs. Failure to comply with these safety guidelines may result in hazards or adversely affect the battery pack's performance and lifespan.

DANGER

1. Never use a non-designated charger to charge the battery pack.
2. This battery pack is exclusively for use with the designated induction cooker and should not be used for other purposes.
3. Do not use metallic objects to touch the terminals, as this could cause a short circuit.
4. Keep the battery pack away from fire and do not place it in high-temperature environments, such as inside a car or under direct sunlight.
5. Do not charge or discharge the battery outside the specified environmental temperature range.
6. Avoid exposing the battery pack to water, seawater, or beverages, and do not submerge it in water.
7. Do not directly solder onto the terminals.
8. If the battery pack or charger is not functioning properly, do not attempt to open the casing yourself.
9. This could lead to potential hazards or damage to internal components. Repairs must be carried out by the distributor or manufacturer.
10. Opening the battery pack will void the warranty. Tampering with the battery pack could cause an internal short circuit, resulting in fire, explosion, harmful gases, or other issues.
11. Do not pierce the battery pack with sharp objects or knives. Avoid subjecting the battery pack to external impacts. If the damage is severe, discontinue use immediately.

WARNING

1. If the battery cannot be fully charged within the designated time frame (2-3.5 hours), stop charging immediately and send it for repair.
2. During charging, discharging, or storage, if you detect unusual smells, excessive heat, discoloration, or deformation, stop using the battery pack immediately.
3. If the liquid from the battery comes into contact with your skin, rinse thoroughly with clean water immediately. If it comes into contact with your eyes, do not rub them. Wash thoroughly with clean water and seek medical attention immediately.

CAUTION

1. Always follow the specified charging/discharging conditions outlined for this product.
2. When replacing the battery, use only the original battery type provided with the product. Using batteries of different specifications may cause internal damage, fusing, or explosion. Store the battery in a cool, dry place whenever possible.
3. If not used for an extended period, charge the battery pack periodically (every THREE months).
4. Keep the terminals clean. If dirt or foreign objects adhere to the terminals, clean them gently with a dry, soft cloth. Do not use gasoline or other chemical solvents to clean the terminals.

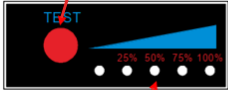
BATTERY MANAGEMENT SYSTEM (BMS):

1. Press the red button to display the current battery level via the indicator lights.
2. When the indicator light is red (<25%), the remaining usage time will be approximately 3-5 minutes. Please use the designated charging station to recharge the battery.

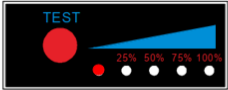
You can refer to the indicator light and battery level table as follows:

Indicator Light and Battery Level					
	Power<25%	25%≤Power<50%	50%≤Power<75%	75%≤Power<100%	Power=100%
LED Indications	Voltage<47.9V	47.9V≤Voltage<50.6V	50.6V≤Voltage<53.3V	53.3V≤Voltage<56.7V	Voltage>56.7V
	D1 light on	D1-D2 light on	D1-D3 light on	D1-D4 light on	D1-D5 light on

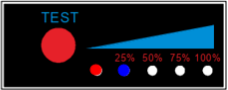
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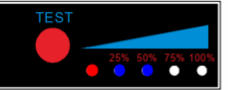
D1/D2/D3/D4/D5



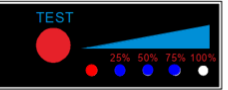
D1 light on



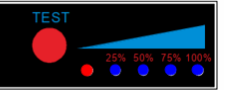
D1-D2 light on



D1-D3 light on



D1-D4 light on



D1-D5 light on