

CLIP-ON BATTERY PACK

LifePo4 Powers
LITHIUM BATTERY

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BATTERY SPECIFICATIONS

Introduction

An innovative, rugged and revolutionary power solution is engineered specifically to match STARLINK MINI perfectly.

With a seamless snap-on fit, LIFIRST delivers extended long-lasting power up to 4.95 hours. Lightweight portable design and IP 65 waterproof function makes it the perfect partner for explorers, campers, RVs and remote workers.

Ensure you stay connected with high-speed internet wherever you go. No outlets, no interruptions.

Manufactured by: QIANGFENG NEW ENERGY TECHNOLOGY (SHANGHAI) CO., LTD
Address: No.398, Xinlv Road, Xinbang Town, Songjiang District, Shanghai, China

Model: LIFIRST-HB-99

BATTERY SPECIFICATIONS

Specifications

Battery Capacity	99Wh	Type	Li-ion
Input	DC 20~40V / ≤4A	Housing Material	PC+ASA
Output	DC 15~21V / 4A (Max)	Operating Temperature	-22~122°F
Cell Brand	Samsung or LG	Waterproof Rating	IP65
Solar Input Supported	≤100W (18~40V)	Runtime	4-5H
Product Weight	Approx. 1.7lb	Charging Time (no load)	3-4 hours (via Starlink Mini charger)

USAGE PRECAUTIONS

Discharge matters

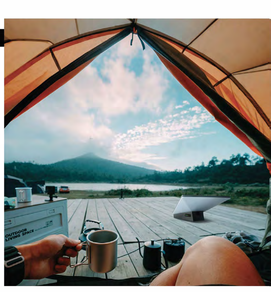
① For long - term storage, keep the state of charge (SOC) within 30% - 50%;
② Charge the device at least once every 30-60 days to avoid deep discharge.

Prohibited Actions

① Do not short-circuit the positive and negative terminals;
② Do not dismantle or puncture the battery casing;
③ Do not use the battery in high-temperature environments (>60°C) or near open flames.

⚠ CAUTION

- Do not throw into fire or incinerate.
- Do not reverse the charger-to -battery connections.
- Do not heat the battery above 70°C.
- Do not disassemble, impact, or improperly dispose of the battery.
- Do not short-circuit the battery.
- Guard against electric shock during operation. Keep away from acids, alkalis, and conductive materials.
- Avoid immersion, drops, impacts, or crushing. Water damage voids the warranty. If the jump starter shows any abnormalities, do not disassemble it. Contact your distributor or our company immediately.



HOW TO USE

HOW TO USE

1 Power On



- Short press to display remaining power.
- Short press to Power On.
- Long press for 3s to Power Off.

2 Install



- Align the charging port of the STARLINK MINI, push it into the slot until you hear a click.

3 Position



Place on a stable surface

4 Uninstall



- Press the clip and slide the battery outward to remove it.

DETAIL SHOWCASE



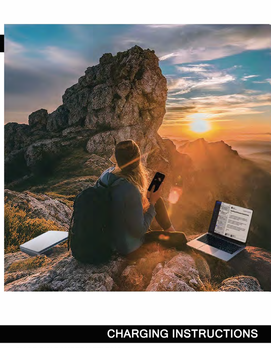
- Features a STARLINK MINI-compatible port with dual-layer waterproofing, durable metal construction, and withstands 3,000+ cycles without damage.



- Equipped with a metal latch for easy press-and-click installation or removal, providing a secure hold.



- Charging port for the battery compatible with the original STARLINK MINI charger. IP65-rated for water and dust resistance.



LED INDICATOR FUNCTIONS

1.LED Indicators

- Red (①): Fault Indicator
- Green (②-⑤): Power Level Indicator
- Charging Status: During charging, Green LEDs (②-⑤) will light up sequentially in a repeating pattern.



2. Charging Status:

While charging, the four green LEDs (②-⑤) light up sequentially in a repeating pattern.

3. Battery Level Display (SOC):

During normal operation, the green LEDs show the current battery level (State of Charge):
0-24%: Only LED ② is lit.
25-49%: LEDs ② & ③ are lit.
50-74%: LEDs ②, ③ & ④ are lit.
75-100%: All four LEDs (②-⑤) are lit.

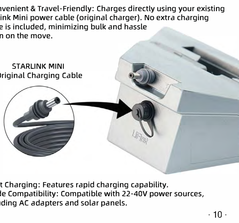
4. Fault Indicator:

The red LED (①) lights up when a fault occurs or protection mode is activated.

CHARGING INSTRUCTIONS

CHARGING INSTRUCTIONS

- Convenient & Travel-Friendly: Charges directly using your existing Starlink Mini power cable (original charger). No extra charging cable is included, minimizing bulk and hassle when on the move.



- Fast Charging: Features rapid charging capability.
- Wide Compatibility: Compatible with 22-40V power sources, including AC adapters and solar panels.

CHARGING BEHAVIOR INSTRUCTIONS

1. COMPATIBLE CHARGERS

- Supports: Original Starlink Mini power adapter when the battery is not in use.
- Recommended for Fast Charging & Pass-Through: Use a **25.2V 3A-4A DC** lithium battery charger for the best performance.

2. NORMAL CHARGING BEHAVIOR

This battery uses an 18V power system with built-in current-limiting protection to ensure safe compatibility with Starlink Mini.
When using the original Starlink Mini adapter:

- Charging may be slower when the battery is not powering the terminal.
- During simultaneous charging and operation, the adapter may not supply enough power for both functions.
- In this case, the battery will supplement power to keep Starlink Mini running, and the battery level may gradually decrease.
- This is normal behavior when using lower-current chargers.

CHARGING BEHAVIOR INSTRUCTIONS

3. FOR STABLE PASS-THROUGH CHARGING

To charge the battery while powering Starlink Mini, a **25.2V 3A-4A** adapter is recommended.
This ensures:

- Faster charging
- Stable operation
- No battery level drop during use

4. SAFETY NOTICE

- Do not use chargers outside the specified voltage range **(22~40V DC)**.
- Avoid low-quality or unregulated power supplies.
- Keep connectors dry and clean.

