

Starlink Mini Portable Power Bank User Manual

I. Product Overview

This portable power bank is equipped with high-security lithium-ion cells, delivering high capacity, fast charging, and a compact, lightweight design for easy portability. It efficiently powers the Starlink Mini, as well as smartphones, tablets, and other portable devices, making it ideal for outdoor travel, camping, and diverse power needs.

The product has undergone rigorous quality testing and complies with all applicable national safety standards. Integrated protection mechanisms safeguard against overcharging, overdischarge, overcurrent, short circuits, and overheating, ensuring safe and reliable operation.

II. Product Specifications

electrical safety	Rated Input	PD3.0 Protocol/USB-C Input: 5V = 3A; 9V = 3A; 12V = 3A; 15V = 3A; 20V = 2.25A (Max power: 45 W)
	rated output	PD3.0 Protocol/USB-C Output: 5V = 3A; 9V = 3A; 12V = 3A; 15V = 5A; 20V = 2.25A (Max 45W) DC: 15-21V (65W Max)
	battery capacity	27500mAh/99Wh
	Overvoltage Protection	Input Overvoltage: 21.25 V
	overcurrent protection	DC output overcurrent: 5 A; Type-C output overcurrent: 10 A
	Overcharge/Overdischarge Protection	Cell overcharge: 21.25 V ± 0.05 V; Overdischarge: 12.5 V ± 0.05 V
environmental safety	working temperature	-10℃ ~ 60℃
	Storage Temperature	-20℃ ~ 70℃
	Working Humidity	20%–85% (no condensation)
	Dust and water resistance rating	IP65
Authentication Type	CE	Authenticated
	UL2056	Authenticated
	CE-EMC	Authenticated
	RoHS	Authenticated

III. Introduction to Product Components

Button Functions:

- 1、 Press the button to open the TFT screen and view parameters.
- 2、 Press the button for 3 seconds to activate DC output.
- 3、 Press the button for 3 seconds to turn off the DC output.

battery status :

- 1、 When the TFT screen is turned on, it displays the battery percentage and a battery status chart.
- 2、 The power consumption is for reference only.

Note: When there is no input or output, the power supply enters sleep mode after 30 seconds.

IV. Function Overview

- 1、 Charging Function: Connect to a Type-C fast charger for charging at approximately 45 W. The TFT screen displays charging status and battery capacity automatically calculated by the chip library. To ensure accurate display, the charger must complete three full charge-discharge cycles. Operating voltage ranges from 21.25 V $\pm$ 0.05 V; overcharge protection activates when current drops to $\leq$ 100 mA, halting charging immediately.
- 2、 TYPE-C Discharge Function: When a Type-C cable is inserted, the power supply automatically detects it, activates the discharge function, and displays the status on the TFT screen.
- 3、 DC Discharge Function: Press and hold the button for 3 seconds to initiate DC output discharge; the screen will illuminate to display the discharge status. Press and hold for another 3 seconds to disable DC discharge. If discharged is selected after a 3-second press, the power supply detects no discharge current on the DC port and automatically shuts down the DC output and enters sleep mode after 30 seconds.
- 4、 Screen display layout: The left side shows battery percentage and a battery level diagram; the upper right displays TYPE-C input/output status and parameters; the lower right displays DC output status and parameters.

Note: This power supply does not support simultaneous charging and discharging. When the DC port is discharging, inserting a Type-C cable to start charging will automatically disable the discharge function and prioritize charging. Both the DC port and Type-C port support simultaneous discharging.

V. Safety Precautions

Please strictly follow the following precautions to avoid product damage, equipment failure, or personal safety risks due to improper use.

- 1、 Do not place power banks in fire, water, or environments with high temperature, high pressure, or humidity (e.g., direct sunlight, bathrooms, near stoves) to prevent explosions, fires, or short circuits.
- 2、 It is strictly prohibited to disassemble, impact, compress, or puncture power banks, as these actions may damage the internal battery cells and cause safety hazards.
- 3、 Use a charger and data cable that meet the product specifications. Avoid using inferior or damaged chargers or cables to prevent damage from excessive current or voltage.
- 4、 If abnormal conditions such as overheating, unusual odor, bulging, or smoking are observed during charging, immediately remove the charger, cease use, and contact customer service for assistance; do not attempt repairs independently.
- 5、 Do not store power banks with metal objects (such as keys or coins) to prevent short circuits at the interface, which could damage the device or pose safety risks.
- 6、 When a power bank is not used for an extended period, it is recommended to maintain approximately 50% battery capacity and recharge it every three months to prevent excessive discharge that may damage the battery and reduce its service life.
- 7、 Do not charge non-designated devices (e.g., metal conductors, damaged batteries) to prevent short circuits or electrical leakage.
- 8、 This product is not suitable for children to use alone. Keep it out of reach of children to prevent accidental use.
- 9、 Disused power banks should be disposed of properly in accordance with local environmental regulations; random disposal is prohibited to prevent environmental pollution.

VI. Common Faults and Solutions

Common Faults	Possible Reasons	resolvent
The power bank cannot charge.	1. The charger or data cable is damaged; 2. The interface has poor contact; 3. The ambient temperature is excessively high or low	1. Replace the functional charger and data cable; 2. Reinsert the connector and ensure tight contact; 3. Store in an environment of 0°C–45°C before attempting to charge
The power bank cannot charge the device.	1. The power bank is completely discharged; 2. The data cable is damaged or the interface has poor contact; 3. Equipment interface failure	1. Charge the power bank fully; 2. Replace the data cable and reinsert the connector; 3. Check the device interfaces and repair the equipment if necessary
Severe heat generation during charging	1. Excessive charging current; 2. The ambient temperature is too high; 3. Product Malfunction	1. Replace with a charger that meets the specifications; 2. Move to a well-ventilated, cool location for charging; 3. Stop using and contact customer service

VII. After-sales Service

7.1 Warranty Policy

This product comes with a 12-month free warranty from the date of purchase (excluding damage caused by human error or force majeure). During the warranty period, if a non-human-induced malfunction occurs, you may contact customer service with your purchase receipt (invoice, receipt, etc.) to receive free repair or replacement services.

7.2 Items Not Covered by Warranty

- 1、 Damages to the product caused by improper use such as manual disassembly, impact, compression, puncture, water ingress, or fire exposure.
- 2、 Non-functional damages such as wear, scratches, or deformation on the product surface;
- 3、 No valid purchase receipt; the purchase receipt does not match the product model.
- 4、 Products beyond the warranty period;
- 5、 Product damage caused by force majeure (such as earthquakes, floods, lightning strikes, etc.).

VIII. Disclaimer

- 1、 This product is intended solely for charging compliant portable electronic devices. The Company shall not be liable for any damage to the device or personal injury resulting from using this product to charge non-compliant devices or improper use.
- 2、 The Company shall not be liable for warranty repairs in cases of product damage caused by force majeure or improper human operation.
- 3、 This manual is for reference only. The appearance and specifications of the product may vary slightly depending on the batch; please refer to the actual product for details. Our company reserves the right to modify product specifications and content of this manual without prior notice.