

Gens ACE



iCheck B36

USER GUIDE

To users:

Dear user, thank you for using Gens ace products. In order to ensure your safe and smooth use of Gens ace iCheck B36 Multi-Functional Smart Battery Checker, please read this USER GUIDE carefully and follow the precautions mentioned.

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Safety Tips

To ensure your safety and a positive user experience, please carefully read the following instructions before using this product:

- Keep all connectors of the checker clean and avoid contact with metal objects;
- If liquid or foreign objects are present in the charging port, wipe them clean promptly and keep the area dry. Failure to do so may cause poor contact, leading to battery short circuits or charging failure;
- Before daily use, regularly inspect the charging port, plug, and other components. Never use alcohol or other flammable agents to clean charging equipment;
- If any abnormalities or warnings occur during the charging process of the checker immediately disconnect the power supply. Only resume use after inspecting and confirming the product functions normally;
- To ensure charging safety, maintain a distance of 30 cm or more between the battery and charger, as well as between batteries during charging. This prevents overheating from concentrated heat during charging, which could cause charger or battery malfunctions and even lead to serious consequences such as fire;
- Whether idle or in operation, the checker should be kept away from heat sources;
- Do not leave the checker exposed to direct sunlight or rain outdoors;
- When not in use for extended periods, disconnect the checker from the battery to prevent the tester from draining the battery;
- Do not use damaged charging equipment. If repair or replacement is required, please contact Grepow after-sales service center in time.

Product Overview

The iCheck B36 is a battery status measurement device specifically designed for 1-8S model batteries, supporting multiple languages including Chinese, English, German, and French. Utilizing advanced G-Tech technology, it automatically identifies connected G-Tech technology, it automatically identifies connected G-Tech smart battery information and allows users to manually adjust default charging current parameters for G-Tech batteries. Additionally, the iCheck B36 supports cell voltage balancing for model batteries, ensuring precise voltage equilibrium across every cell.

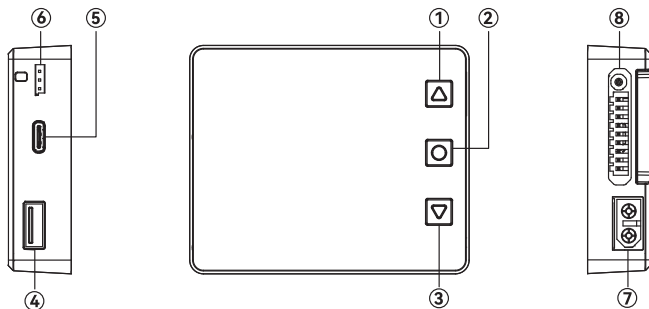
Via its USB interface, the iCheck B36 transforms into a powerful mobile charger compatible with PD 3.0 and QC 2.0 charging protocols. It also

features PWM, PPM, and other communication signal testing capabilities alongside protocol analysis functions. Equipped with multiple safety protections including over-temperature and over-current safeguards, the iCheck B36 ensures comprehensive operational safety.

Parameters

Display	2.4 inch TFT screen	Maximum charging power	Type-C: PD30W USB-A: 22.5W
Max Balance Power	2W	Support Battery Type	LiHv/LiPo/LiFe/ Lilon (1-8S)
Balance charge current	100mA/Cell	Operating temperature	0 ~45 °C
Balance Accuracy	<0.005V	Storage temperature	-20~60 °C
Charge current	Max.3A	Input port	XT60+ G-Tech balanced connector
Output port	USB-A Port+ USB-C Port	Supports fast charging protocols	PPS/PD3.0/PD2.0, PD2.0/PD3.0 output supports 5V/9V/12V/15V/20V, up to 30W. QC2.0/QC3.0 output supports: 5V/9V/12V, up to 22.5W.
Size	81.89±1×66.89 ±1×18.5±0.5mm	Weight	Approx.74g±5g

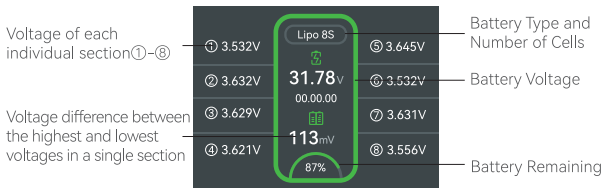
Structure Introduction



Model Number	Function Description
1	Up button
2	Confirm/Back (Long press to return to the main screen)
3	Down button
4	USB-A port
5	USB-C port
6	Receiver Signal Detection Port
7	XT60 charging port
8	G-Tech balanced charging port

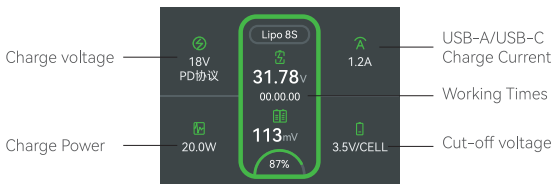
Interface Introduction

1、When on the main interface, insert the battery to view the battery charge level, voltage of each cell, and cell voltage difference.



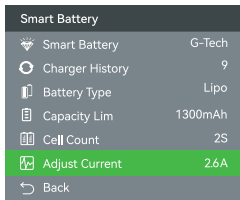
Main Interface

2、Press the “Confirm” button on the main interface to select the “USB Charging” function (as shown below).



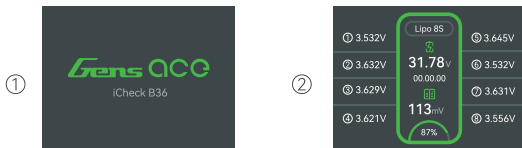
USB Port Charging

3、When both the G-Tech connector and XT60 connector are connected, the G-Tech battery information screen is displayed by default. The default charging current of the G-Tech battery can be adjusted manually, up to a maximum of 2C. Press and hold the “Confirm/Back” button to return to the main screen.

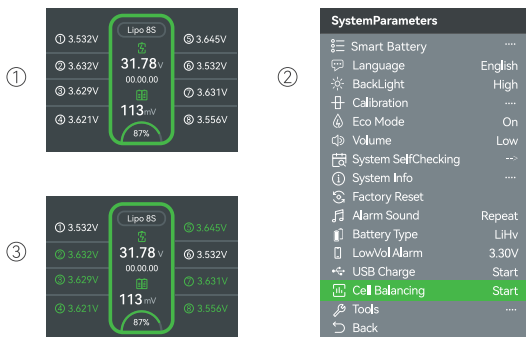


Function Introduction

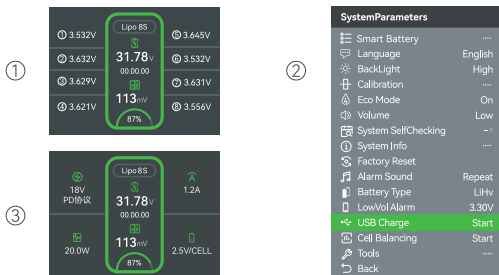
1、After connecting the checker to the smart battery, the product logo screen will appear for approximately 3 seconds before automatically transitioning to the main interface. When the battery is connected, the interface will display battery information (as shown below).



2、After entering the main interface of the battery Checker, briefly press the “Confirm/Return” button to access the system settings menu. Select the “Cell Balancing” function and briefly press the ‘Co nfirm’ button to initiate cell balancing. At this point, cells with significantly higher voltage will undergo discharge balancing. When the voltage difference across all cells drops below 5mV, the buzzer will emit a “beep-beep” sound, indicating balancing is complete. Press and hold the “Confirm/Return” button to return to the main interface.



3、After entering the Checker's main interface, press and hold the "Confirm" button to access the system settings menu. Next, use the 'Down' button to select the "USB Charging" option, then press the "Confirm" button to activate the USB port power supply function.



4、Tool Function Description

On the main interface, briefly press the "Confirm/Back" button to enter the system settings menu. Select the "Tools" option to access the receiver signal measurement tool.

The tool list is as follows:

PWM Measurement	By measuring the pulse width of the input PWM signal, one can accurately determine the command values currently being issued by the remote controller or flight controller. This method is widely used in controlling devices such as servos and electronic speed controllers (ESC).
Servo ManuTest	Press the "Confirm/Back" key briefly to toggle between T1 (cycle) and P (pulse width). Use the 'Up' or 'Down' keys to increase or decrease T1 (cycle) and P (pulse width), respectively.
Servo AutoTest	Press the "Confirm/Back" button briefly to toggle between Speed (swing speed), Range (angle), and Cycle (cycle period). Use the 'Up' or 'Down' buttons to increase or decrease the values for Speed (swing speed), Range (angle), and Cycle (cycle period), respectively. - Speed: Features three modes—Low, Medium, and High. Higher modes result in faster rotation speeds. - Range: Higher values increase the swing amplitude. - Cycle: Higher values accelerate the reciprocating motion.
PPM Out	Press the "Confirm/Back" button briefly to select the channel whose pulse width needs adjustment. Then press the up or down buttons briefly to modify the output pulse width for that channel. This operation is commonly used when connecting the flight controller or receiver to other modules.

System Settings

Press and release the “Confirm/Back” button on the main interface to enter the system/function settings screen. The list of system function settings is as follows:

Smart Battery	View/Modify G-Tech Battery Parameters
Language	switching between Chinese, English, German, French, Japanese, and Korean.
Backlight	Low/Medium/High
Eco mode	Can be switched to automatically enter sleep mode
Volume	Adjust the volume of the device
System Info	Check device information
Alarm Sound	Voltage Exceeds Set Value Alarm
Battery Type	Select battery type(LiHv、Lipo、Lilon、LiFe)
LowVol Alarm	Battery voltage alarm when below set value
USB Charge	Enable or disable USB charging
Cell Balancing	Balance the balanced port voltage
Tools	PWM measurement, manual servo testing, automatic servo testing, PPM output
System SelfChecking	After powering on the device, enter the main interface and press the “Confirm/Return” button to access the system settings menu. Use the down arrow key to select “System Self-Test,” then briefly press the “Confirm/Return” button to initiate the self-test. Important: Never initiate self-test with battery balancing cables connected. Wait for the “Self-test Normal” prompt to appear on screen, indicating completion. If abnormal results appear, contact customer service immediately. Special note: Do not perform consecutive system self-tests.

Warning: To prevent battery depletion due to prolonged non-use, it is recommended to disconnect the tester from the battery.

Description of the manual calibration voltage function

Due to the precision variance in electronic components, the voltage readings of the cells by the charger may have slight discrepancies. To ensure accurate voltage readings, users can verify the readings using a high-precision multimeter. If the charger's cell voltage differs from the multimeter's readings, you can manually adjust it using the charger's channel calibration function in the system settings.

Instructions: If you have a multimeter and notice a difference between the voltage readings of the multimeter and the charger, you can manually calibrate the charger's voltage by following these steps. To ensure more accurate voltage calibration, it is recommended to charge the battery to an individual cell voltage above 4.1V before measuring and comparing.

1. Connect a battery with a voltage above 4.1V to the charger's balance port.
2. On the main screen, short-press the Confirm/Back button to enter the System Settings menu, then select "Calibration".
3. A random code will appear. Adjust the keys to enter the random code to confirm the operation.
4. Enter the corresponding voltage value in the calibration interface based on the multimeter's readings.

After completing these steps, the charger will automatically calibrate the voltage according to the values you entered, ensuring more precise charge management.

Firmware Upgrade

1. To upgrade the product firmware, connect the detector to a computer using a USB cable. During the process, an Internet connection may be required to automatically install the USB driver software.
2. Press and hold the “Confirm / Back” button, then connect the battery to power on the device. Release the button after the detector emits a “beep-beep” sound. Double-click to launch the upgrade software, then left-click “Upgrade”. The detector screen will turn black. Wait until the upgrade is complete. If the USB cable is disconnected, the power is interrupted, or a similar issue occurs during the upgrade process, the upgrade may fail. In this case, the previous firmware version may already have been erased. Repeat Steps 1 and 2 above to restart the upgrade process.

Note: Only the USB-C port supports firmware upgrades.

After-sales and Warranty

Thank you for purchasing our device. Gens Ace is committed to providing comprehensive after-sales service to fully protect your rights. If your product malfunctions, please contact Gens Ace's after-sales service team.

1. The warranty expiration date for faulty products is determined by the date of delivery to the Gens Ace After-Sales Service Center.
2. All warranties are free of charge for product quality issues within one year from the date of purchase. If the customer cannot provide valid proof of purchase, the internal date code will be used as the basis; The following causes of product damage rendering it inoperable are not covered under warranty:
 1. Damage caused by failure to set the correct battery voltage as specified;
 2. Damage resulting from improper use contrary to the instruction manual;
 3. Damage resulting from human error, accidental impact, or other force majeure events;
 4. Unauthorized modification, disassembly, or alteration of the product's internal circuitry without our company's approval;
 5. Damage caused by water immersion, moisture ingress, or foreign objects entering the product;
 6. Surface aging, impact damage, or scratches on the product casing.

Please note proper usage: Users shall bear all consequences resulting from incorrect operation. The company shall not be liable for any costs exceeding the product's cost and reserves the right to modify this clause without prior notice.