

BG-18S

Smart Battery Lipo Cell Checker

USER GUIDE

Thank you for purchasing the ISDT BG-18S Smart Battery Lipo Cell

Checker.

The ISDT BG-18S is specially designed for RC and industrial applications across various fields. We strongly recommend that you read the user guide before using the product. ISDT accepts no liability for any damage, injury, or legal issues arising directly or indirectly from the use of this product.

Functions of products will keep on upgrading; the manual currently may be different as time passes. Please refer to our social media for the latest updates.

Warnings and Safety Tips

To ensure your safety and a good user experience, please read these instructions and warnings before using this product.

- Read the instruction manual carefully to become familiar with the features of the product.
- Do not operate the product in extreme heat, high humidity, flammable, or explosive environments. Improper use in such conditions may result in damage to the product, personal property, and serious injury.
- Never leave the product unattended during operation. If any abnormal function occurs, stop using it immediately and consult the manual to identify the issue.
- Keep the product away from dust, moisture, rain, high temperatures, direct sunlight, and strong vibrations.
- Please ensure that flammable and explosive materials are kept away from the operating area.
- Make sure you have a full understanding of the charging and discharging characteristics and specifications of the battery you are connecting to ensure you know the condition of the battery.
- Before connecting the battery, verify that the battery is not damaged and is within the safe operating range of the product. During operation,

ensure that the number of strings selected matches the number of connected battery strings. Maintain proper ventilation and heat dissipation during use.

- Keep children away from the device to prevent burns or injuries.
- Disconnect and remove the battery as soon as operation is complete.

! NEVER USE DEVICE UNSUPERVISED

- Never attempt to connect primary (non-rechargeable) batteries.
- Batteries pose a severe risk of fire if not properly handled.
- Read entire operation manual before using Device.
- Only operate this device in a cool ventilated area away from flammable objects.



WARNING!



FIRE HAZARD!

🔖 Specifications

Model No: BG-18S

Working Voltage: DC 10~90V

Support Working temperature: 0~40°C

Supported battery types:

LiFe, LiPo, LiHv, ULiHv

USB Type-C: For Firmware Update Only

Dimension: 101.8×70×27.3 mm

Weight: Approximately 121g

Balance port measurement voltage range: 1.5V~5V

Voltage Measurement Accuracy:
±0.005V @4.2V

Storage temperature: -20~60°C

Display: 2.4-inch 320*240 resolution
260K color IPS LCD display

🔖 Buttons



Up Button

Menu/Confirm Button

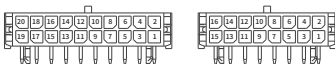
Down Button

Menu/Confirm Button - Press on the main page to enter the settings menu.

Up/Down Buttons - Use these buttons to scroll up and down, selecting different options.

Guide For the Connection of Balanced Port

- ① The balance port of this product is suitable for connecting lithium batteries with Molex connectors. The cell sequence must be strictly in accordance with the diagram below. Additionally, only one of the Molex 16-pin or 20-pin connectors is allowed to be plugged in. Plugging in both will risk damaging the machine.



Function Setting

Short press menu button to see system function menu below:

 Function	
 Language	English
 Backlight	Middle
 Volume	Low
 Alarm Tone	Off
 Battery Type	LiPo
 Low Voltage Alarm	30.0V

Language – Support up to 7 languages

Backlight – Features high, medium, and low brightness levels.

Volume – Support high, middle, low and no volume, Alarm sound can not be turned off due to safety.

Low voltage alarm - Set the low voltage alarm. An alarm will be triggered if the voltage drops below the set value.

System Information – Show Firmware Version

Back – Exit Function menu

When Battery Connecting to Balance Port

When the battery is connected to the balance port, the left side displays from top to bottom in order: the total voltage of the battery, the voltage difference between the highest and lowest individual cell, the maximum voltage of a single cell, and the minimum voltage of a single cell. The right side shows the voltage value of each cell.

 67.32V	Cells Voltage	
 0mV	1 3.740V	10 3.740V
 3740mV	2 3.740V	11 3.740V
 3740mV	3 3.740V	12 3.740V
 6%	4 3.740V	13 3.740V
	5 3.740V	14 3.740V
	6 3.740V	15 3.740V
	7 3.740V	16 3.740V
	8 3.740V	17 3.740V
	9 3.740V	18 3.740V



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*All product photos, statements and literature are for reference only. For up-to-date information, please visit our official web www.isdt.co SHENZHEN ISD TECHNOLOGY CO. LTD ISDT reserves the right of final explanation and revision for the terms.

BG-18S

智能锂电池电芯检测仪

用户指南

感谢您购买ISDT BG-18S智能锂电池电芯检测仪

ISDT BG-18S 专为遥控(RC)领域及工业应用场景设计。强烈建议您在使用产品前仔细阅读用户指南。对于因使用本产品直接或间接导致的任何损坏、伤害或法律问题, ISDT 不承担任何责任。

产品功能将持续升级, 当前说明书内容可能随时间更新而有所差异。最新信息请以我们的社交媒体平台发布内容为准。

警告和安全提示

为确保您的安全和良好的使用体验, 请在使用本产品前仔细阅读以下说明和警告:

- 仔细阅读说明书, 熟悉产品的功能。
- 不要在极端高温、高湿度、易燃或爆炸性环境中操作本产品。在这些条件下不当使用可能会导致产品损坏、个人财产损失和严重伤害。
- 在操作过程中切勿将产品无人看管。如果出现任何异常情况, 请立即停止使用, 并查阅手册以确定问题。
- 将产品远离灰尘、湿气、雨水、高温、直射阳光和强烈振动。
- 请确保易燃和爆炸性材料远离操作区域。
- 确保您完全了解您所连接的电池的充电和放电特性及规格, 以确保您了解电池的状况。
- 在连接电池之前, 请确认电池没有损坏且处于产品安全操作范围内。在操作过程中, 请确保所选的电池串数与连接的电池串数相匹配。使用时请保持适当的通风和散热。

- 防止儿童接触设备,避免烫伤或受伤。
- 操作完成后,请立即断开并移除电池。

❗ 切勿在无人看管的情况下使用

- 切勿尝试连接一次电池(不可充电电池)。
- 电池若处理不当,存在严重起火风险。
- 使用设备前请阅读完整操作手册。
- 仅在凉爽通风的区域操作本设备。



WARNING!



FIRE HAZARD!

📖 规格

型号: BG-18S

工作电压: DC 10~90V

支持工作温度: 0~40°C

支持的电池类型:

LiFe, LiPo, LiHv, ULiHv

USB Type-C接口:仅用于固件更新

尺寸: 101.8×70×27.3mm

平衡口测量电压范围: 1.5V~5V

电压测量精度: $\pm 0.005V @ 4.2V$

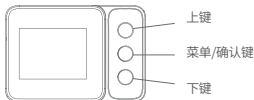
存储温度: -20~60°C

显示屏: 2.4英寸320*240分辨率

26万色IPS液晶屏

重量: 约121克

📖 功能按键

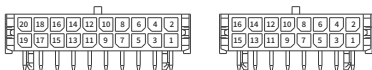


菜单/确认键 在主页面按下进入设置菜单。

上下键 用于上下滚动,选择不同的设置选项。

平衡接口连接方式

- ① 本产品平衡口适用于连接molex接头的锂电池, 电芯顺序需严格按照下图所示, 并且molex 16pin 和 molex 20 pin 只允许接入其中一个接头, 否则会有损坏机器的风险。



功能设置

短按菜单键可查看以下系统功能菜单：

⌘	Function	
🌐	Language	English
☀️	Backlight	Middle
🔊	Volume	Low
🔔	Alarm Tone	Off
🔋	Battery Type	LiPo
🔌	Low Voltage Alarm	30.0V

语言 - 支持最多 7 种语言

背光 - 分为高、中、低三个亮度

音量 - 支持高、中、低和静音模式, 出于安全考虑, 报警音不可关闭

低压报警 - 设置低电压报警, 低于设置的值会触发报警

系统信息 - 显示固件版本

返回 - 退出功能菜单

🔋 当电池连接到平衡口时

当电池连接到平衡口时,左边从上往下依次显示电池总电压、电池单个电芯最大值和最小值的压差、单个电芯电压最大值、单个电芯电压最小值,右边显示每节电芯电压值。

 67.32V		Cells Voltage	
 0mV		① 3.740V	⑩ 3.740V
 3740mV		② 3.740V	⑪ 3.740V
 3740mV		③ 3.740V	⑫ 3.740V
		④ 3.740V	⑬ 3.740V
		⑤ 3.740V	⑭ 3.740V
		⑥ 3.740V	⑮ 3.740V
		⑦ 3.740V	⑯ 3.740V
		⑧ 3.740V	⑰ 3.740V
 6%		⑨ 3.740V	⑱ 3.740V



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