

# IOT控制器使用说明书

IOT Controller instruction manual

IOT Controller

S010A

BLUETTI

SHENZHEN POWEROAK NEWENER CO., LTD.

深圳市德兰明海科技有限公司

CMIIT ID:XXXXXXXXXX

## 1、Communication methods通讯方式

The EP600 energy storage system is connected to the IOT controller, and the inverter information can be seen on the mobile APP through Bluetooth or WiFi. And remotely control the working mode of the inverter.

The working information of the system (power generation, alarm, and working status) can be uploaded to the server through WiFi network. Users can use the APP to view and control the device according to their needs, which requires registering an account and binding the device by scanning the QR code of EP600.

EP600 储能系统连接 IOT 控制器, 可以通过蓝牙或者 WiFi 在手机 APP 上看到逆变器信息以及远程控制逆变器的工作模式。

系统的工作信息(发电量、报警、工作状态) 可以通过 WiFi 网络上传到服务器, 用户可根据需求选择使用 APP 来进行查看和控制, 需要注册账号并通过扫描 EP600 的二维码来绑定设备。

IOT 控制器包含通讯方式如下:

The IOT controller contain the following communication methods:

| communication methods | Remark         |
|-----------------------|----------------|
| Wi-Fi                 | 标配<br>Standard |
| Bluetooth             | 标配<br>Standard |

## 2、Overview

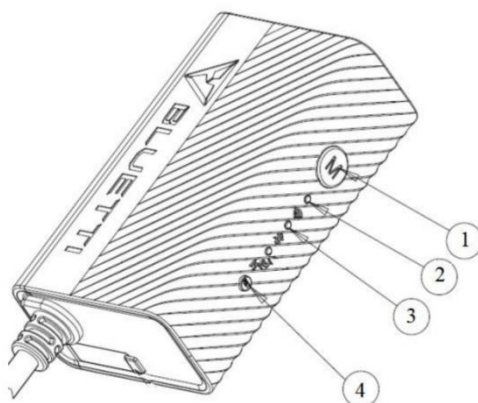


Fig. 6.13

1.用户按键。

- 2.WIFI指示灯，WIFI没有连接时，灯闪烁，连接后，常亮。
- 3.蓝牙指示灯，蓝牙没有连接时，灯闪烁，连接后，常亮。
- 4.复位按键。

1. Menu Button.

To factory reset the controller, press and hold this button till all LED indicators flash.

2. WiFi Indicator.

Flash till the controller connected to WiFi.

3. Bluetooth Indicator.

Flash till the controller connected to Bluetooth.

4. Reset Button.

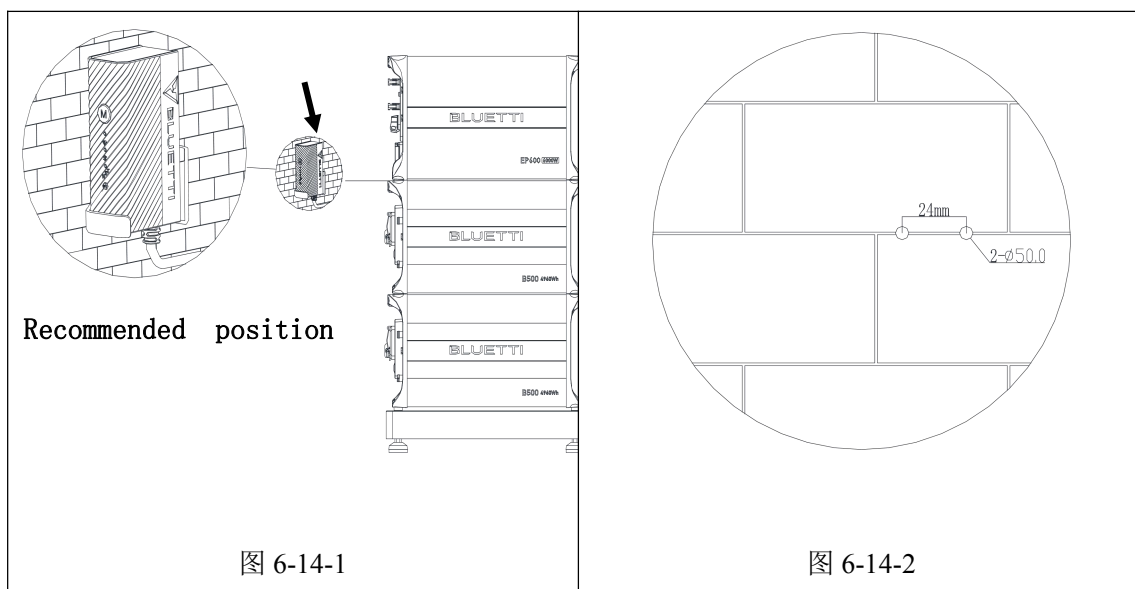
### 3、 Installation

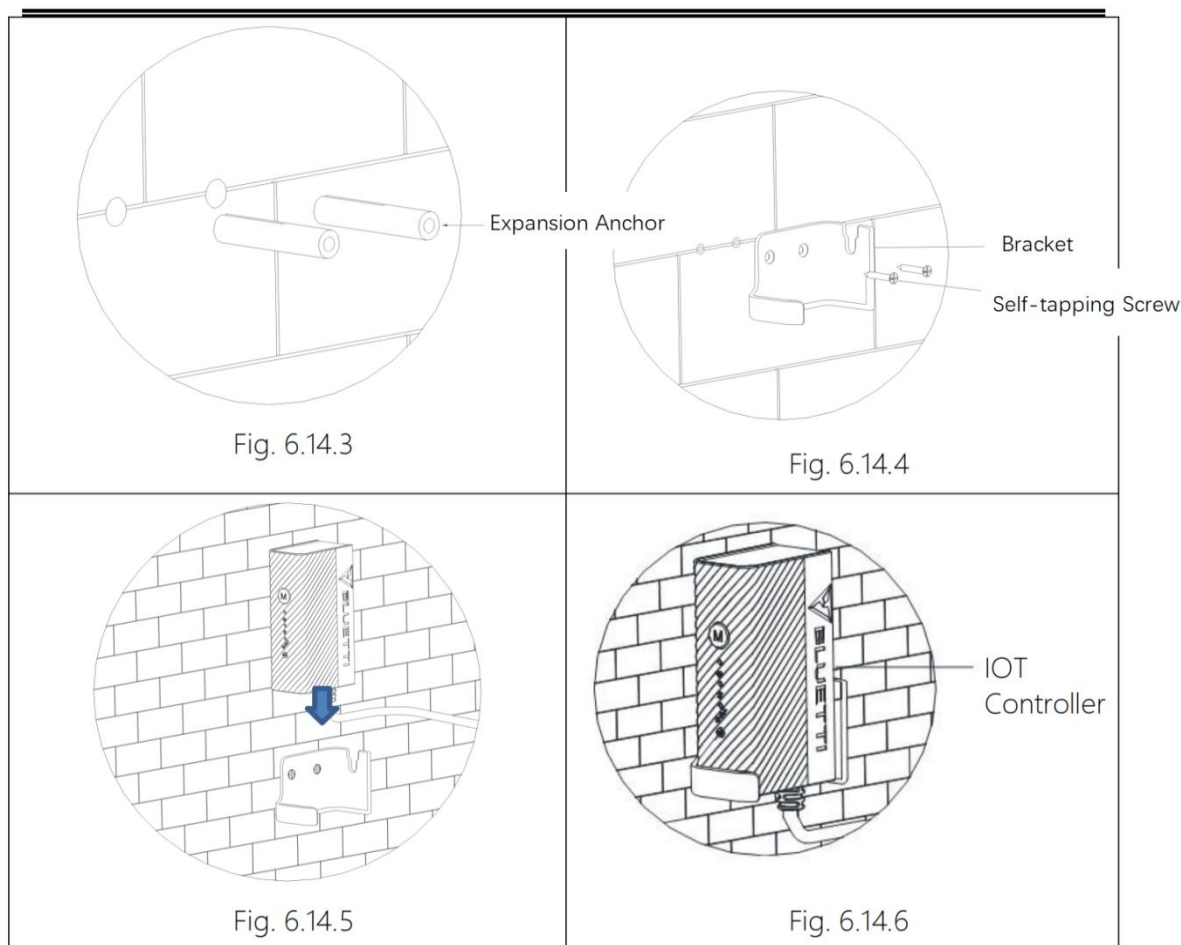


- Step1:** 使用电钻在墙体上打孔，打孔位置见图6-14-1，打孔尺寸见图6-14-2，打孔深度26mm；
- Step2:** 取膨胀胶塞，用铁锤将膨胀胶塞打入预先钻好的墙体孔洞内，膨胀胶塞端部与墙体面平齐，见图6-14-3；
- Step3:** 取IOT控制器支架，将IOT控制器支架的两个螺丝孔与墙体孔对齐，使用十字螺丝刀将十字沉头自攻螺丝紧固IOT控制器支架于墙体，见图6-14-4；
- Step4:** 取IOT控制器，将IOT控制器卡扣对准IOT控制器支架U槽，垂直插入支架底部到位。见图6-14-5和6-14-6。

- a. Drill 2 pilot holes in the wall. Please refer to the drill position and hole size shown in fig. 6.14.1 and fig. 6.14.2. The depth of hole is 26mm.
- b. Hammer the expansion anchor in until it's flush with the wall. See fig. 4.14.3.
- c. Fix the mounting bracket onto the wall and use the Phillips screwdriver to fasten 2 self-tapping screws into the expansion anchors. See fig. 4.14.4.
- d. Align the controller's buckle over the U-slot and push the controller downwards until it

snaps in place. See fig. 4.14.5 and fig. 4.14.6.





#### 4、 Safety Instructions

- IOT控制器仅适用于本公司产品，禁止接入其他设备。
- 不要将设备放置在热源附近，禁止在有易燃、易爆气体及烟雾环境中存储或使用设备。
- 除授权人员外，请不要擅自更换设备内任何部件，包装中没有可供用户更换的部件。

##### 警告：

- 请勿将异物插入设备的任何端口，请小心使用并确保儿童远离设备。
- 如果设备起火，请使用干粉灭火器进行灭火。
- The IoT controller is ONLY applicable to BLUETTI products only.
- Do not keep the controller near heat sources or in high temperatures.
- Do not store the controller with flammable liquids, gases, or explosive materials.
- The inspection, testing, and maintenance should be performed by qualified personnel.

##### Warning

- Do not block or cover the openings of the controller. Keep it out of the reach of children.
- Use dry powder fire extinguisher in case of fire.

#### 5、 Connection and Operations



Fig. 6.15

连接方式:

**Step1:** 使用通讯线缆M19自锁9芯插头插入逆变器Link Port 1接口。

**Step2:** 开启逆变器时IOT控制器同步开机。

**Step3:** 打开APP应用程序进行操作。

请在APP Store（苹果设备用户）或者Google Play（安卓设备用户）找到“BLUETTI”并下载“BLUETTI”APP应用，通过“BLUETTI”应用程序就能远程控制电源系统。（详情请见8.2下载并安装BLUETTI APP）

IOT控制器能够通过蓝牙或者WIFI进行远程控制，如需远程接入设备，请启动已下载好的“BLUETTI”应用程序，然后点击“登录”图标并进行“注册”，随后填入您的BLUETTI账号及相关信息即可完成注册。（详情请见8.3注册BLUETTI账号）

- a. Plug the communication cable into EP600 Signal Port 1.
- b. Turn on EP600, and the IoT controller starts up automatically.
- c. Configure the controller in BLUETTI app.
- d. Please find "bluetti" in the app store (Apple device users) or Google play (Android device users) and download the "bluetti" app application, through which you can remotely control the power system. (see 8.2 download and install bluetti app for details).
- e. The IOT controller can be remotely controlled through Bluetooth or WiFi. If you need to remotely access the device, please start the downloaded "bluetti" application, click the "login" icon and "register", and then fill in your bluetti account and related information to complete the registration. (see 8.3 registering bluetti account for details).

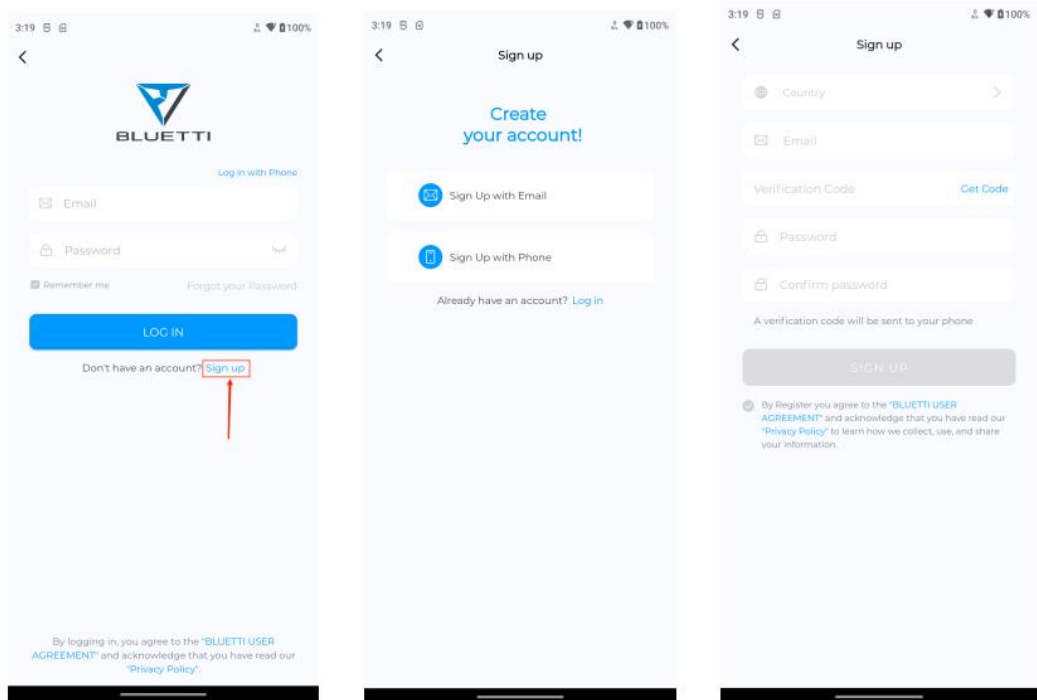


Fig. 6.16

- BLUETTI will send the verification code to your registered email account, and fill in the verification code to activate your BLUETTI account.

BLUETTI will send the verification code to your registered email account, and fill in the verification code to activate your BLUETTI account.

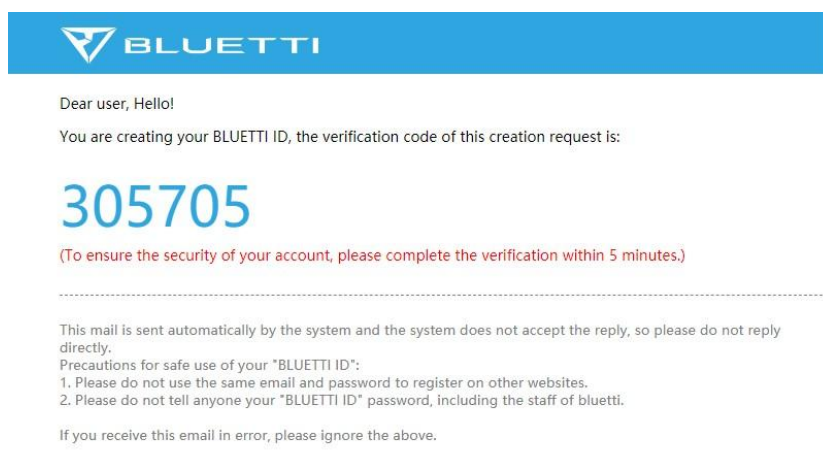


Fig. 6.17

## 6、 Firmware Upgrade

## 6.11.1 Upgrade via USB Drive

EP600逆变器可以通过U盘进行软件升级，最大限度提高逆变器性能，避免软件bug导致逆变器运行异常。

EP600 inverter supports firmware upgrades via a USB drive to maximize its performance and avoid failures caused by firmware errors.

**Step1:**将U盘插入计算机。

**Step2:**我司将把升级固件发送给需要升级的用户。用户收到文件后，请将文件解压并保存在U盘中。

**Step3:**将U盘插入机器USB接口。

**Step4:**打开机器开关。

**Step5:**机器识别到U盘内正确的升级文件后就会开始软件升级，正在升级DSP，正在升级ARM。

**Step6:**升级成功之后，蜂鸣器会鸣叫提示用户升级完成，这个时候需要用户将U盘拔下，否则机器会报U盘格式异常的错误。完成升级后，用户可以开始使用本机器，用户可以在手机APP的系统信息>>软件版本中查看当前的软件版本。

**Step7:**如果出现以下错误，请按如下所列方式解决。如果这种情况出现多次（5次），请联系技术支持部门寻求帮助。

- a. Insert the USB drive into a USB port on your computer.
  - b. Download the upgrade file\*, unzip and store it on the USB drive.
  - c. Insert the driver into the USB port on EP600.
  - d. Power on EP600.
  - e. The firmware upgrade starts automatically once the upgrade files are detected.
  - f. The buzzer beeps once after the firmware is updated successfully. Please unplug the USB drive, or EP600 will report a USB Format Error.
  - g. Pair EP600 with BLUETTI app, then you can check the firmware version on the phone.
- If any of the following occurs, please try the solutions provided. If the symptom persists (for 5 times), contact the BLUETTI support team, and we'll get back to you in 48 business hours.

\* Please contact BLUETTI customer service.

表 6-11

| 故障信息                | 解决方法                                                                                              |
|---------------------|---------------------------------------------------------------------------------------------------|
| U 盘升级功能异常           | 出现该异常请直接联系技术支持部门寻求帮助                                                                              |
| U 盘格式异常             | 1. 查看所使用 U 盘格式是否为 FAT32 的格式，且内存最大为 32G，若不满足上述条件，请修改或更换 U 盘。<br>2. 查看升级文件是否存在或过期。不存在或过期请下载最新版本的文件。 |
| 升级完成后对应显示版本信息未更新或异常 | 请检查下载最新的升级文件，若已是最新的文件，请联系技术支持部门寻求帮助。                                                              |

| Error Description   | Solution                                                            |
|---------------------|---------------------------------------------------------------------|
| USB Upgrade Failed. | Please contact the BLUETTI support team.                            |
| USB Format Error.   | 1. Make sure the USB is formatted as FAT32 with no more than 32G in |

|                                            |                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                            | size.<br>2. Check if the upgrade files exist or expire. Please download the latest upgrade files.    |
| Firmware version not updating or abnormal. | Please download the latest upgrade files. If the symptom persists, contact the BLUETTI support team. |

Fig. 6.11

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### FCC RF Exposure Warning Statements:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### IC Radio Frequency Exposure Statement:

This equipment complies with IC exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

Cet équipement est conforme aux limites d'exposition IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et le corps.