Smart Battery SMBus Reader
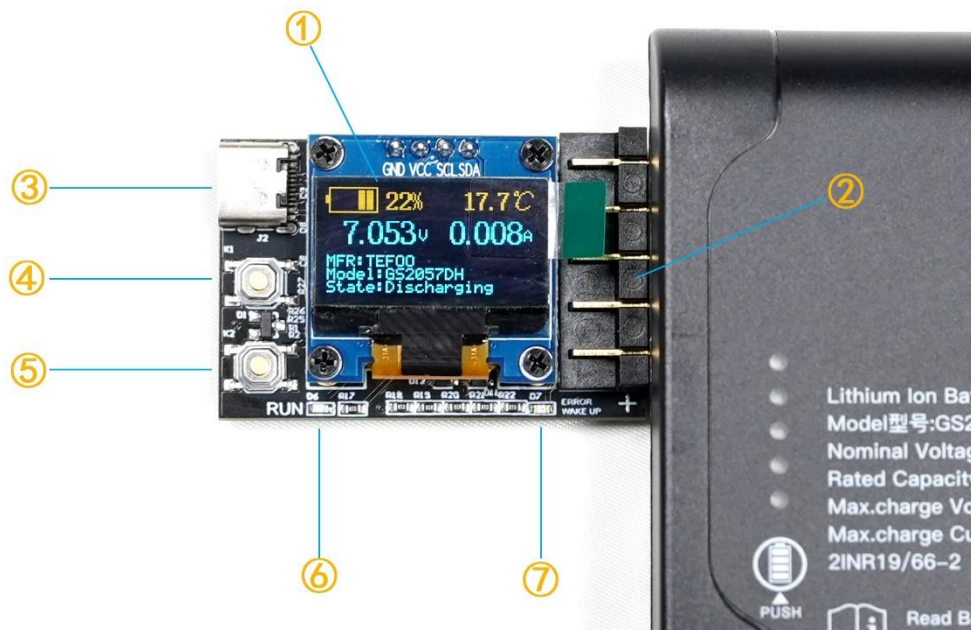

User Manual

V1.0

Introduction

① Display screen ② Battery interface

③ USB-C interface

④ Operation buttons K1

⑤ Operation buttons K2

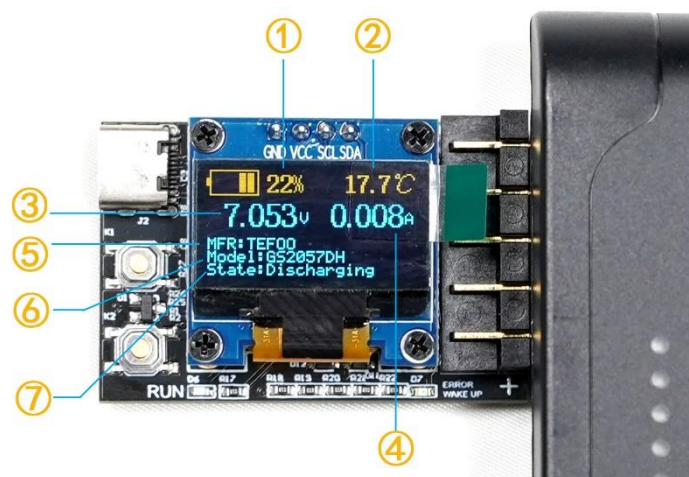⑥ Running Indicator ⑦ Error or Wake up Indicator

Function

1. **Battery interface:** 5PIN blade type smart battery connector, suitable for all TEFOO standard smart batteries.

2. **USB-C interface:** PD 12V, Used for activating the battery or power supply (during battery depletion, protection, or shutdown).

3. **Screen:** 0.96 inch, Yellow and blue dual color screen, resolution 128 * 64.

4. **Anti reverse connection:** Yes, the red light is on when the battery is reversed.

5. **Activatie feature:** Yes, the red light flashes or lights up when the battery is activated.

6. **Operation indicator:** Blue light flashing at 1Hz indicates that the module is functioning normal.

Page Display

● Screen I

① State of charge (SOC)　　　② Battery temperature

③ Battery voltage　　　　　　④ Battery current

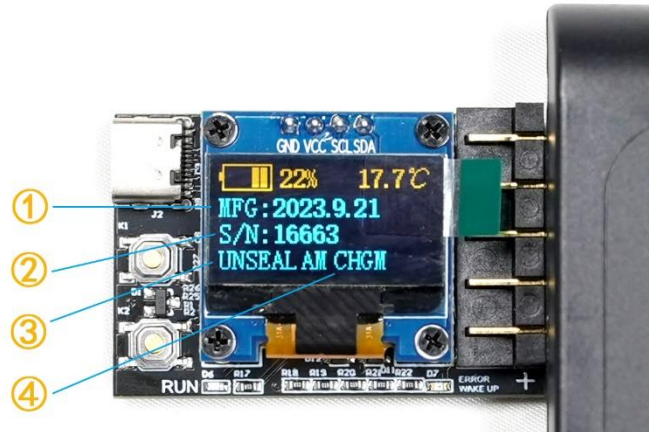⑤ Battery manufacturer

⑥ Battery model

⑦ Battery status

● Screen II

① Date of manufacture

② Battery serial number

③Encryption status: SEAL means it has been encrypted, UNSEAL means not

encrypted.

④ Broadcast status: AM CHGM means that the broadcast has been turned on
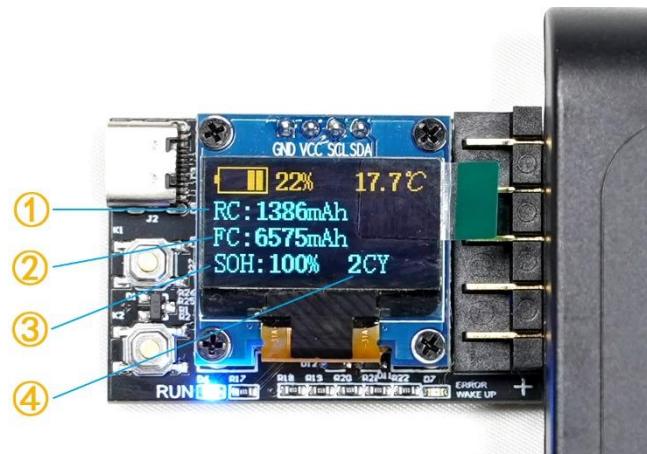

- **Screen III**

① Remaining capacity

② Full charge capacity

③ State of Health (SOH)

⑤ Battery cycle count

Operation Manual

1. **Click the K1 button:** Switch between screen I and II.

2. **Click the K2 button:** Switch between screen I and III.

3. **Press and hold K1 and K2 simultaneously:** Long press and hold K1 and K2

until the progress bar on the screen reaches 100%. The Reader sends a shutdown command to the battery. Within 10 seconds, the battery will cut off power and enter shutdown mode. The Reader screen will turn off, and the battery's self consumption will decrease to within 10UA. This mode is suitable for long-term storage or sea transportation, and requires charging activation.

Note

1. This Reader is only applicable to the TEFOO standard smart lithium battery pack series products.

2. TEFOO are not responsible for consequences of using this product outside its specified range.

3. Do not throw into fire or water.

4. Do not press the screen forcefully.

5. Do not reverse connect the battery for a long time.

6. Do not connect USB and battery simultaneously for a long time to prevent overcharging of the battery.

7. Reader has current consumption. Disconnect the battery when not in use to prevent battery drain.

8. Do not insert USB-C when the battery is reverse connected.

Reference

[1] S. I. Forum, "System Management Bus Specification Version 2" 03 Aug 2000.

[Online] Available: http://smbus.org/specs/

[2] S. I. Forum,"Smart Battery Data Specification Revision 1.1" 11 Dec 1998.

[Online] Available: http://sbs-forum.org/specs/