



SMART POWER CASE

USER MANUAL VERSION 1.0



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Features

- Smart ON/OFF power button
- OLED Display with call sign, time warning, current, voltage, used capacity and temperature
- Configurable low-voltage/overload warning buzzer
- Short Circuit Protection
- Auto Power OFF to protect batteries from under-discharge damage
- Rapidly Attach/Detach System with magnetic system
- Ability to directly charge the batteries inside the case via balance Jack (including an adapter for XT60 type chargers) or charge in separate charger
- Easily & Rapidly swap batteries
- Designed for 18650 rechargeable batteries
- Fits Perfectly on FatShark battery strap
- Temperature display
- Designed to work with all types of goggles

Product Layout

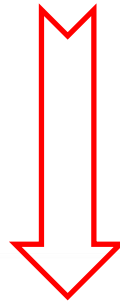


How To Use Smart Power Case?

❖ Battery types

- Compatible with all 18650 lithium-ion batteries.
- Recommended Battery: <https://goo.gl/QEwDN3>

BATTERY POLARITY PLACEMENTS



❖ How to charge Smart Power Case via Balance jack?

- Recommended charging current: 1.0A – 1.5A
- Directly charge the batteries inside the case via balance Jack



- Directly charge the batteries inside the case via balance Jack and an adapter cable. Video Tutorial: <https://goo.gl/p4WScu>

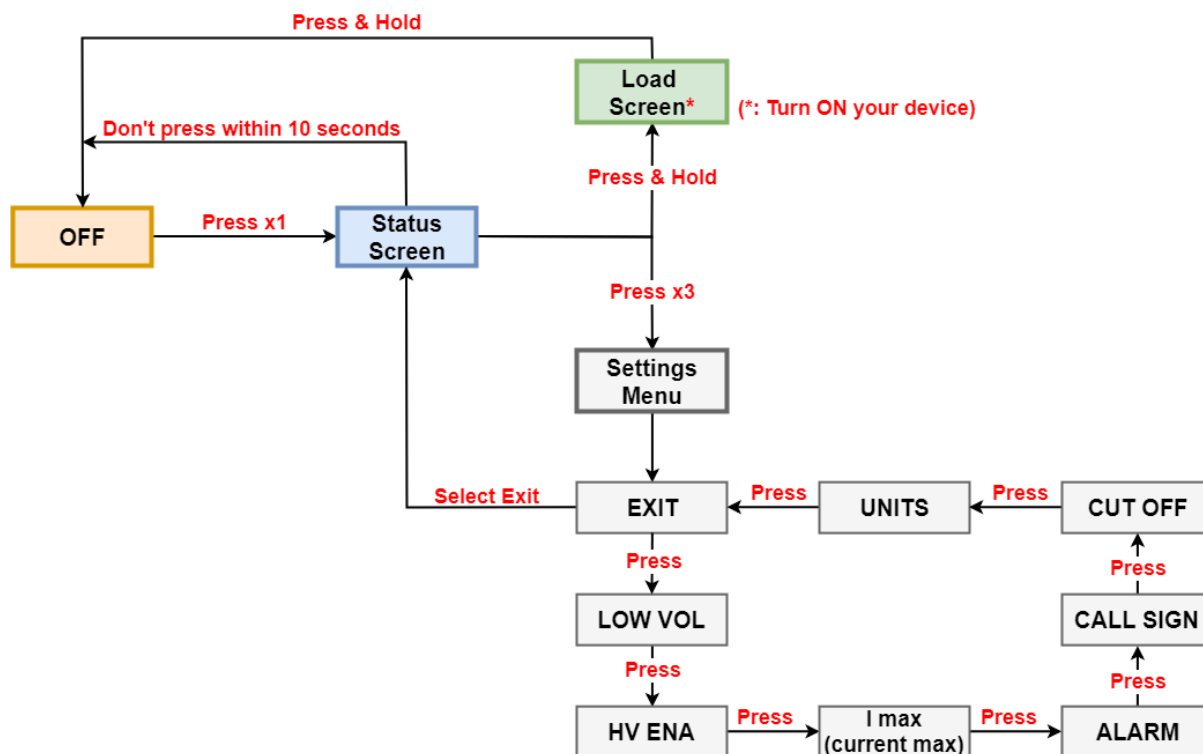


❖ How to turn ON/OFF Smart Power Case?

- **ON:** Press then press + hold the button until Load Bar on the OLED is full
- OFF:** At the Load Screen, press then press + hold the button until Load Bar on the OLED is empty. Also, while in setting or on “Status Screen” mode if no button is pressed , it will auto turn off.

Usage

The Smart Power Case's diagram:



***Note:** When you are at “Settings Menu” and want to go to **Load Screen**. Please select **Exit** to come back to **Status Screen**. Then, press + hold button to go to **Load Screen**.

❖ Status Screen

Show Voltage remaining and the running texts to guide into the Settings mode.



Voltage Remaining

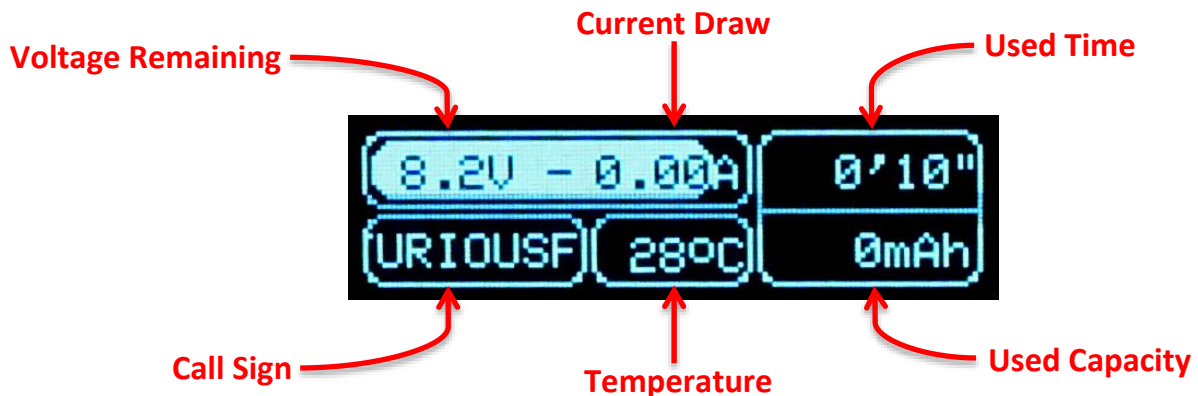


The running texts to guide into Settings mode

❖ Load Screen

Show Voltage Remaining, Current Draw, Used Time, Call Sign, Temperature and Used Capacity.

***Note:** Select this mode to turn on your device



❖ Settings Menu

***Note:** When you turn on the Smart Power Case and don't plug it into your device. After 2 minutes, the buzzer will give a warning and then shut down.

➤ LOW VOL – Low Voltage Warning

- Warning by buzzer and OLED displays “**LOW VOL!**” when voltage remaining is lower than the configured low voltage level.
- The options are as follow: from 6.0V to 7.2V (Step Size: 0.1V) and NONE



➤ HV ENA – Battery High Voltage Selection

- Select the highest voltage to display voltage level at Load Screen.
- The options are as follow: EN-8.7V/ DIS-8.4V.



➤ I max (Current Max) – Overload Warning

- Warning by buzzer and OLED displays “**OVER LOAD!**” when current draw is higher than the configured current level and then auto shut down module.
- The options are as follow: from 0.6A to 2.0A (Step Size: 0.1A)



➤ ALARM – The Time Warning

- Plug it into your device, set a time for the alarm and the buzzer will beep a few times when time comes. Then, auto shut down
- The options are as follow: **None/ 30min/ 60min/ 90min/ 120min.**



➤ CALL SIGN – Pilot Name Display

- Configure call sign/pilot name or text to be displayed on your Smart Power Case. You may utilize up to 10 alphanumeric characters and symbols.
- To change Call Sign: Click button to change characters and press button to move through characters.



➤ CUT OFF – Critical Voltage Warning

- Warning by buzzer and OLED displays “VOL TOO LOW!” when voltage remaining is lower than the configured voltage (if it passes this level, it may harm your battery lifespan).
- The options are as follow: from 5.0V to 6.0V (Step Size: 0.1V) and NONE



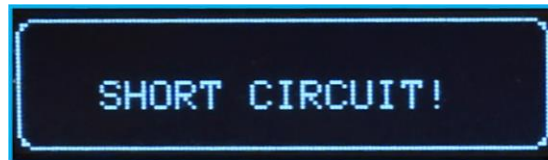
➤ UNITS – Temperature Display

- Show temperature (°C/°F) on your module



Troubleshooting With The Warning

- **Case 1:** Short Circuit warning when devices connected to Smart Power Case have issues with electric short when getting wet or short circuit happens when screw drivers accidentally touch the power leads, the Smart Power Case will automatically turns off the power to prevent battery damage and also prevents damages to other connected devices.



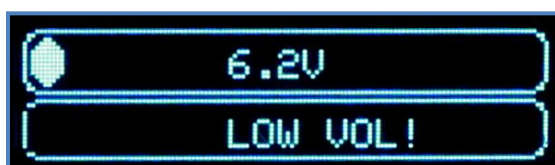
- **Case 2:** Overload warning when current draw above the programmable threshold, the Smart Power Case utilizes an audible Overload warning when current draw above the designated threshold. Able to be programmed with I_{max} settings that range from 0.6A to 2.0A.



- **Case 3:** Low Voltage warning or Critical Voltage warning when voltage drops below the programmable threshold, the Smart Power Case utilizes an audible low voltage warning when power drops below the designated threshold. Able to be programmed with voltage settings that range from 6.0V to 7.2V with Low Voltage and from 5.0V to 6.0V with Critical Voltage.



- **Case 4:** Power drops below the designated threshold when you press button to turn on the Smart Power Case. OLED displays "**LOW VOL! – CANNOT OPEN LOAD!**" or "**CRITICAL LOW VOL! – PLEASE RECHARGE ME!**" then you cannot go to Load Screen to turn on your device. Please recharge battery to use.



- **Case 5:** Try to turn on Smart Power Case but it doesn't power on. Please check battery polarity or make sure that battery cells are working

Support

The reseller you purchased your product from handles the first line of support. If you encounter any problems with your Furious FPV products, please contact them first on issues involving equipment from other brands and general support for Furious FPV products.

Please contact us if you need further assistance:

Tech support: tech@furiousfpv.com

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Thanks for using our product