

## #15010

# PM02 v3 Power Module



PM02 is a simple way of providing your APM and Pix32 with clean power from a LiPo battery as well as current consumption and battery voltage measurements, all through a 6-pos cable. The on-board switching regulator outputs 5.2V and a maximum of 3A from up to a 12S LiPo battery. The Power Module comes completely assembled with XT60 connectors, and wrapped in shrink tubing for protection.

The Power Module is designed to power APM, Pix32, a RC receiver and APM accessories (GPS, radio). It is not designed to power servos. Use your aircraft's own ESC/BEC for that. The GH terminal is also compatible with both Pix32, Pixhawk4, Pixhawk4 mini, Pix32 V5 and Durandal.

### Spec:

UBEC input voltage : 7~51v (2~12s LiPo)

Rated current: 60A

Max current: 120A (<60S)

Max current sensing: 120A

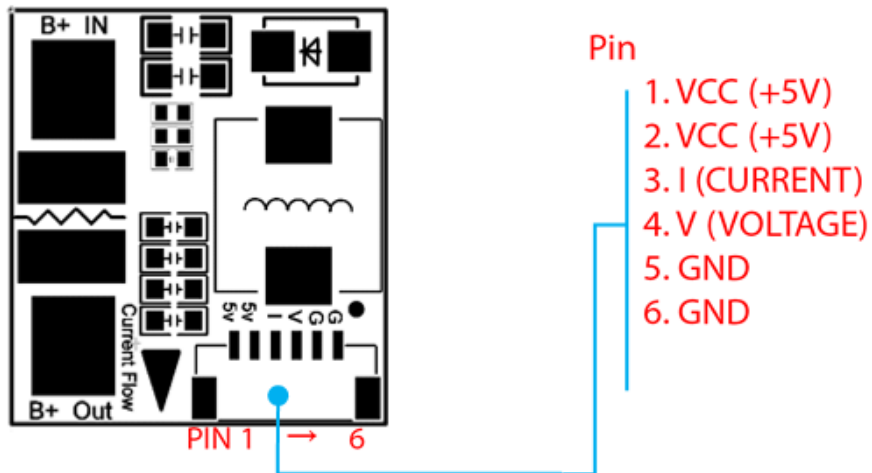
Supports 12S battery

Voltage and current measurement configured for 3.3V ADC

Switching regulator outputs 5.2V and 3A max

Weight: 20g

## PIN MAP

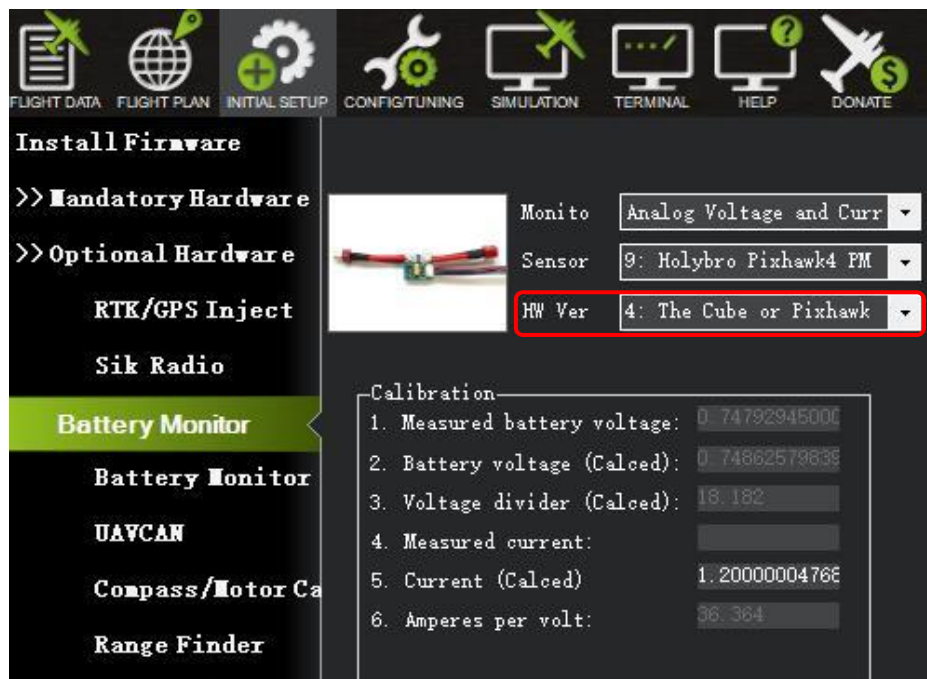


## Make the PM02 show the quantity of electric charge of your battery

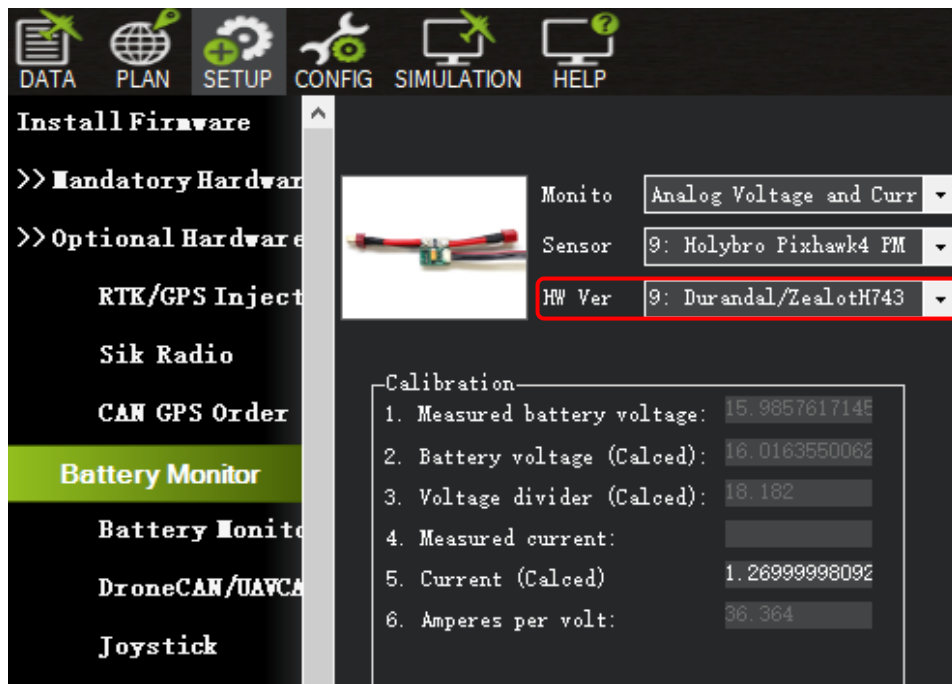
Mission Planner setup:

1. Connect PM02 to the battery, also connect it to Mission Planner via USB.
2. Click "INITIAL SETUP" and come to the menu "Battery Monitor".
3. Make "Monito" into "Analog Voltage and Current".
4. Make "Sensor" into "9: Holybro Pixhawk4 PM".
5. Make "HW Ver: **"The Cube or Pixhawk"** (pixhawk4,pixhawk4mini,pix32v5,pix32) " \*  
"HW Ver: **Durandal** (Durandal) " \*
6. Input "18.182" into Voltage divider (Calced).
7. Input "36.364" into "Amperes per volt".
8. Disconnect and reconnect it to finish the setting up. ("Measured battery voltage" shows the current quantity of electric charge of the battery.)

\*HW Ver: "The Cube or Pixhawk" (pixhawk4,pixhawk4mini,pix32v5,pix32)



※HW Ver: **Durandal** (Durandal) .Or you can designate it in the Full Parameter List



The XT60 plug and 14AWG wire that PM02 comes with is rated for 30A continuous current and 60A instantaneous current (<1 minute). If a higher current is being used, the plug type and wire size should be changed accordingly. The specifications and models are as follows:

Plug specification	wire size	Rated current: (4 hours, temperature rise <60 degrees)	Max current: (1 minute, temperature rise <60 degrees)
XT60	12AWG	30A	60A
XT90	10AWG	45A	90A
XT120	8AWG	60A	120A

**Package Include:**

- 1x PM02 board
- 1x Electrolytic capacitor: 220uF 63V(installed)
- 1x MOLEX 6P cable
- 1x JST GH 6P cable

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