

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 and Durandal.

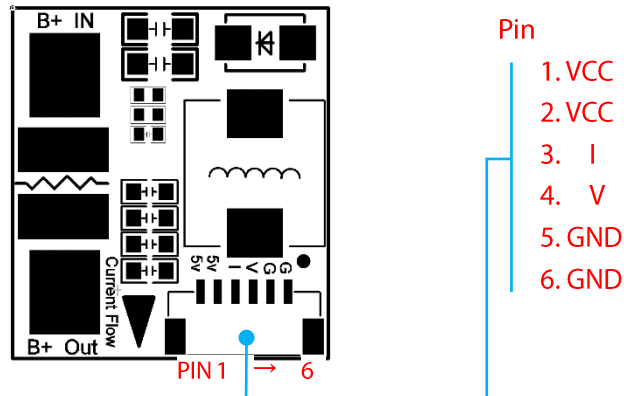
Spec:

PCB Current: total 120A outputs (MAX)
UBEC input voltage : 7~51v (2~12s LiPo)
Supports 12S battery
Voltage and current measurement configured for 5V ADC
Switching regulator outputs 5.2V and 3A max
Weight: 20g

Package Include:

PM02 board*1
6pin MLX cable *1
6pin GH cable *1

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 "Voltage and Current".
4. Make "Sensor" into "Other".
5. Make "APM Ver" into "The Cube or Pixhawk".
6. Input "18.1" into Voltage divider (Calced).
7. Input "36" 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.)

Mp Mission Planner 1.3.58 build 1.3.6794.30567 APM:Copter V3.4.6 (e707341b)

The screenshot shows the Mission Planner interface with the "Battery Monitor" menu item highlighted. The configuration options are as follows:

Parameter	Value
Monito	4: Voltage and Current
Sensor	0: Other
APM Ver	4: The Cube or Pixhawk

Calibration data:

Item	Value
1. Measured battery voltage:	16.6946849790
2. Battery voltage (Calced):	16.6933915190
3. Voltage divider (Calced):	18.1
4. Measured current:	
5. Current (Calced)	0
6. Amperes per volt:	36