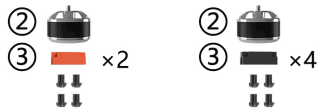


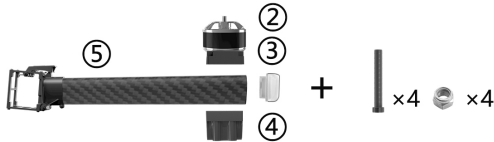
step 1



step 1

② (Motor) fixed on ③ (Motor Holder Top)

step 2



step 2

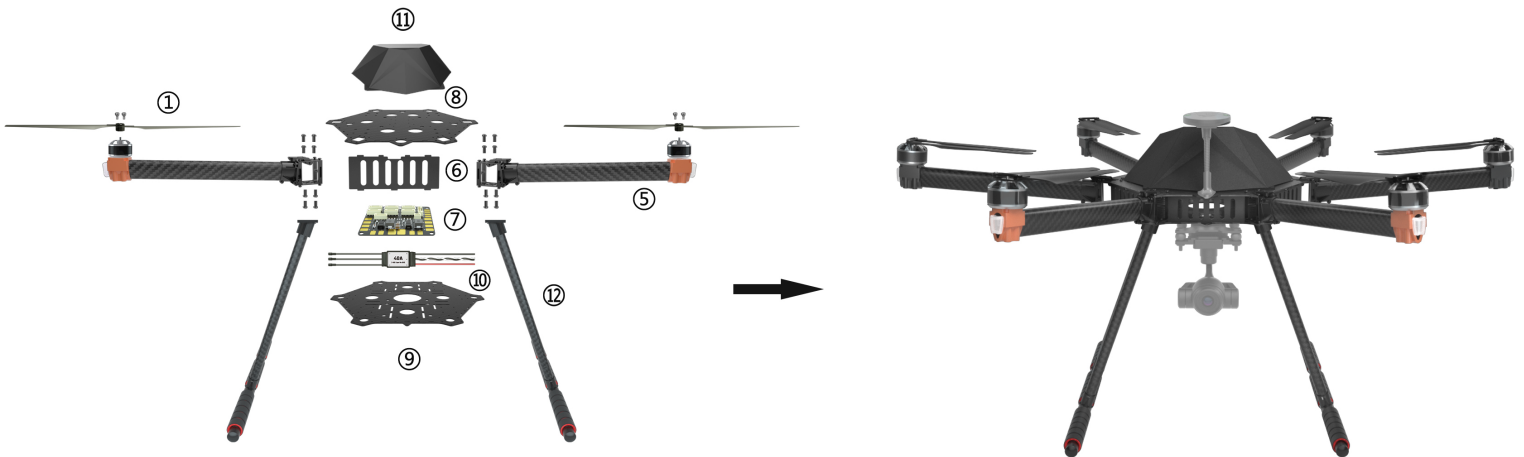
Put ⑤ (Aerofoil Arm) between ③ (Motor Holder Top) and ④ (Motor Holder Bottom), then lock them tightly by screws.

step 3

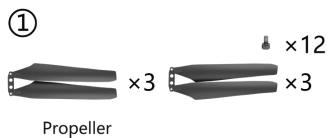
When finished Step2, Put ⑩ (ESC) up above the ⑨ (Main Bottom Plate). The same of the rest ESCs

When finished all the steps up. Put four aerofoil arms in the middle of ⑧ (Main Top Plate) and ⑨ (Main Bottom Plate). Then install ⑫ (Landing gear set) on ⑨ (Main Bottom Plate).

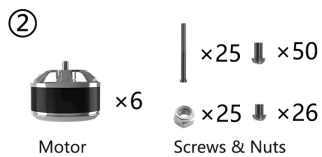
step 3



Part List:



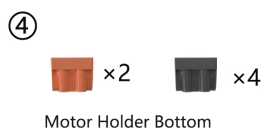
Propeller



Motor



Motor Holder Top



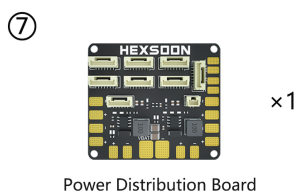
Motor Holder Bottom



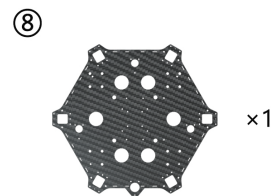
Folding Aerofoil Arm



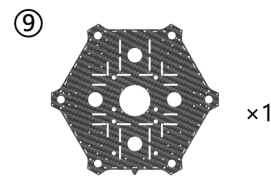
Side Plate



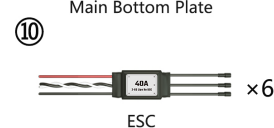
Power Distribution Board



Main Top Plate



Main Bottom Plate



ESC



Cover



Landing Gear Support



Landing Gear Crossbar



LED Lamp

PDB-40A W/ BEC 5V & 12V

SKU: PDB-40A

The PDB-40A has been engineered to provide the highest possible performance and reliability in a 36*57mm & 4 layers PCB. It distributes power from a LiPo pack to 6 ESCs, as well as providing Switching Regulator DC 5V outputs & Switching Regulator DC 12V for powering Cameras, Servos, RC receiver, Flight Controllers, Video Transmitters, LEDs, etc.

Features

- 4oz copper, 4-layers & 1.0mm PCB.
- Total 6 pairs ESC solder tabs are fit for H or X type frame
- 5V & 12V Output LED indicators & Short circuit tolerant

Specifications

General:

- Input voltage range (3S-6S LiPo operation): 9 - 26V DC
- Regulated 5V and 12V outputs
- LED power indicators (5V & 12V outputs)
- 6 ESC outputs & 1 pair VCC/GND pads

ESC outputs:

- Peak Current 6x40A
- Continuous current 6x25A

BEC 5V output:

- Designed for RC Receivers, Flight controllers, OSD, and Servos.
- DC/DC synchronous buck regulator.
- Voltage: 5.3 +/- 0.1VDC
- Continuous current: 3 Amps
- Output Ripple: 40mV (VIN=16V, VOut=5V@2A load)
- Short-circuit tolerant (5 seconds/minute)
- This connector has the same definition as the cube's carrier board.

BEC 12V output:

- Designed for Video TX or FPV camera with switching regulator.
- The battery should be 4-6S LiPo (13~26V DC)
- Voltage: 12.0 +/- 0.3VDC
- Continuous current: 2A
- Short-circuit tolerant (2 seconds/minute)

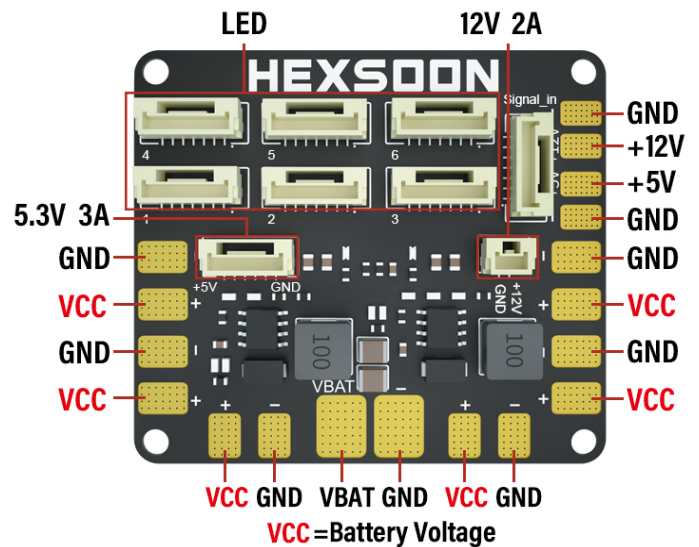
BEC 12V @ 3S LiPo

- Output voltage= 3S LiPo voltage -1V

Physical:

- Dimensions: 57.2 x 50.5 x 5.2mm
- Mounting: 52 x 45.3mm, Ø3mm
- Weight: 14.5g(w/o 40A)

Layout



Connections

