Product Manual

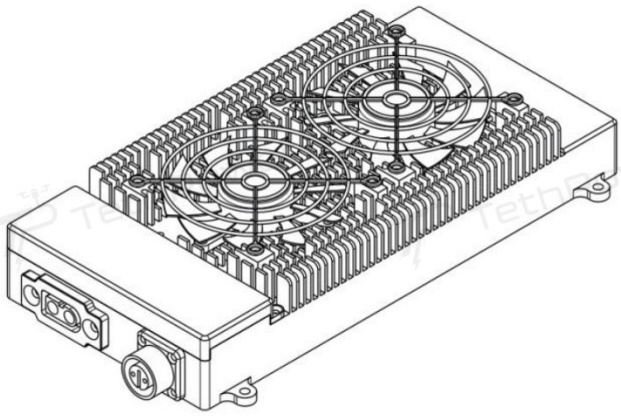
TP- P2.5



24-volt / 48-volt airborne module

Introduction

The 24-volt / 48-volt airborne module can be adapted to ordinary drones using 6S or 12S batteries, and provides a power output of 48 volts for the drone's load.



Parameter

Dimensions: 188 mm (length) × 100 mm (width) × 32 mm (height) (excluding pipe clamps)

Weight: 532 g

Load interface type: XT60

Output voltage of the load interface: 24V / 48V

Battery input interface type (BAT IN): XT90

Voltage of the battery input interface: 24V / 48V

Battery output interface type (BAT OUT): XT90

Voltage of the battery output interface: 24V / 48V

Power: 2200 W rated / 2500 W peak

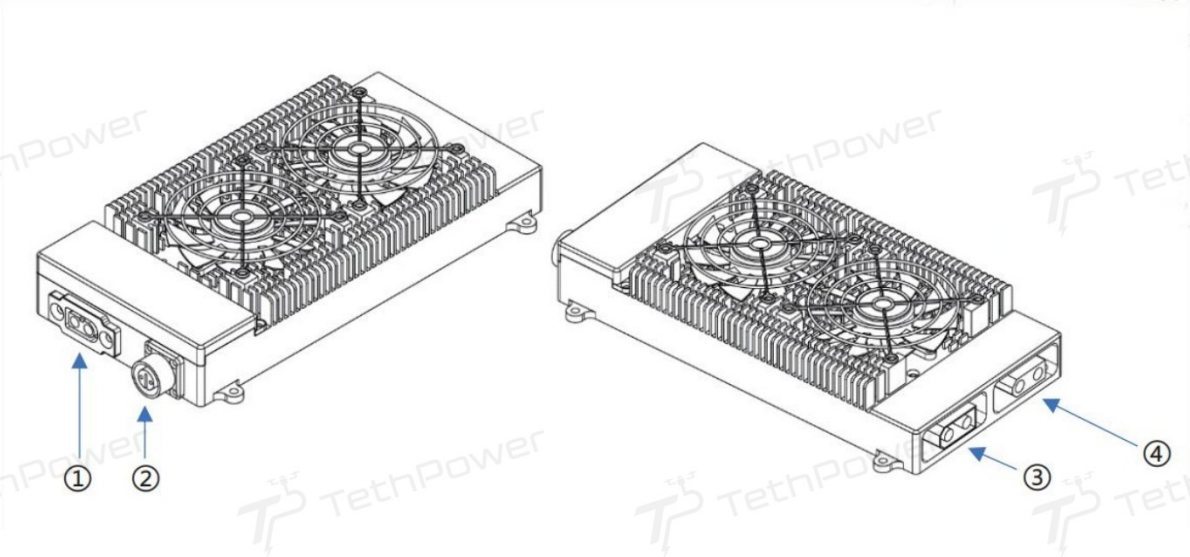
Accessories：2 adjustable pipe clamps

Precautions：

This product is a precision device. During the process of use and transportation, avoid vibration and dropping.

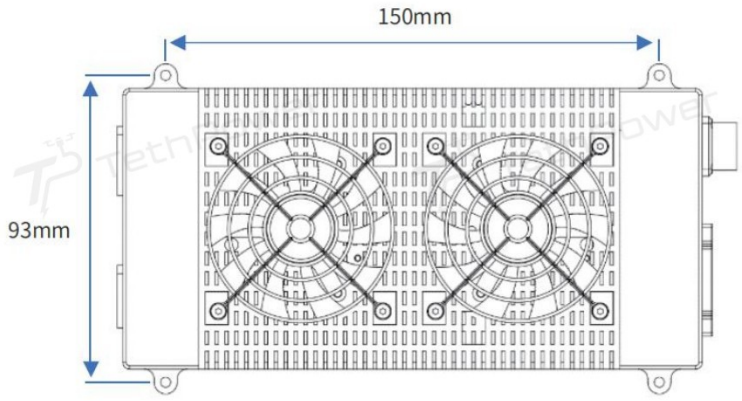
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Instructions for Interfaces



1. 48-volt power interface
2. 400-volt tethered power input interface
3. BAT IN (Battery input interface, which is connected to the drone battery)
4. BAT OUT (Battery output interface, which is connected to the power input port of the drone)

Dimensions



Length: 150 mm

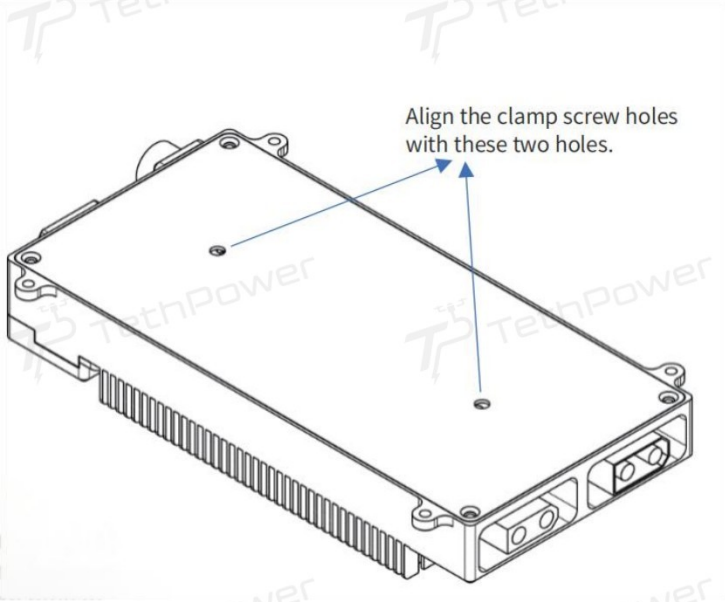
Width: 93 mm

Diameter of the mounting hole: 3.1 mm

24/48-volt Airborne Module

Instructions for Use

Precautions：Be sure to wear gloves when the module is powered on.



Installing the Airborne Module

Users can choose from the following two installation methods according to the structure of the drone.

1. Use a No. 1.5 hexagon socket screwdriver to remove the backplate of the module (unscrew 4 M2.5 screws). Install 2 pipe clamps on the backplate, and then reinstall the backplate onto the module.

2. Install the module onto the drone through 4 mounting holes. (It is recommended to use M3 screws.)

(Align the screw holes of the pipe clamps with these two holes.)

Connection

1. Connect the battery input interface on the drone to the battery output interface (BAT OUT) on the airborne module. Then, connect the drone battery to the battery input interface (BAT IN). Finally, connect the cable aviation plug of the tethered power supply station to the airborne module.

2. After use, unplug the aviation plug, the drone battery plug, and the plug of the drone battery input interface in sequence.

Warnings and Disclaimers

Any illegal use of this product by users is strictly prohibited. Users shall be responsible for all acts of using this product.

Our company shall not assume the risks and liabilities arising from all debugging and usage of this product by customers. (Including direct, indirect or third-party losses)

Our company reserves the right of final interpretation regarding the changes in the functions described in this manual due to product upgrades and modifications.

This product and its main accessories come with a one-year warranty. Damages caused by human factors such as water ingress and disassembly are not covered by the warranty.

Safety Warnings

This product is not a toy and is not suitable for use by persons under 18 years old. Please keep the product out of the reach of children. Exercise extra caution when operating the product in the presence of children.

This product involves a high voltage of 400 volts. Improper use may cause personal injury. Before using the product, please carefully read the product manual. Make sure not to touch the tethered cable and the plug connector when the tethered power supply is turned on.

When the tethered cable connector is disconnected from the drone, be sure to turn off the tethered power switch.

When pulling the live cable, wear insulating gloves to ensure personal safety. In case of electric shock, it is considered improper operation, and the customer shall bear the resulting consequences.

Since the tethered cable generates heat, if the drone has a heavy load or needs to fly for an extended period, all the tethered cables should be pulled out of the box. Otherwise, the temperature inside the box may rise to an unsafe level.

The maximum flight time of the aircraft connected to the tethered power supply is 12 hours. For tasks lasting more than 12 hours, it is recommended to replace the aircraft or let the aircraft land and rest for one hour before resuming the flight.