

Digital Power Module (2-14S)

PMD05V10V

The PMD05V10V is designed to deliver a stable and regulated power supply from the battery to Godwit G-A1 or Pixhawk® 5X and 6X. It also provides real-time battery voltage and current measurement through I2C interface. The onboard switching regulator supports 5.2V/3A and 10.2V/1.5A outputs for various peripherals, and is compatible with LiPo batteries up to 14S. The PMD05V10V comes fully assembled with XT60 connectors and is protected by heat-shrink tubing to enhance durability against physical damage.

Key Features

- Compact design
- Dual power outputs for various peripherals
- Supports high voltage up to 14S LiPo batteries

Specifications

Scope of Application	Used with Godwit G-A1, Pixhawk 5X/6X compatible
Power Monitor IC	TI INA228
Power Monitor Protocol	I2C
Input voltage	2S-14S
Continuous Current Rating	60A*
Burst Current Rating	100A*
Max Current Sensing	327A
Output Voltage	Output 1 : 5.2V/3A (15W Max.) Output 2 : 10.2V/1.5A (15W Max.)
Connectors	Input : XT60-F silicone wire (AWG 12) Output : XT60-M silicone wire (AWG 12)
Dimensions	38 x 30 x 10 mm (PCBA only) 38 x 240 x 10 mm (PCBA with XT60 cables)
Weight	40 g
Accessories	200mm Molex compatible 2.0mm 6P to 6P cable (AWG 24) 200mm Molex compatible 2.0mm 2P to 2P cable (AWG 22)

*The PMD05V10V comes with XT60 connectors and AWG12 wires rated for 60A continuous current and 100A burst current (<60 seconds).

Pin Definition

