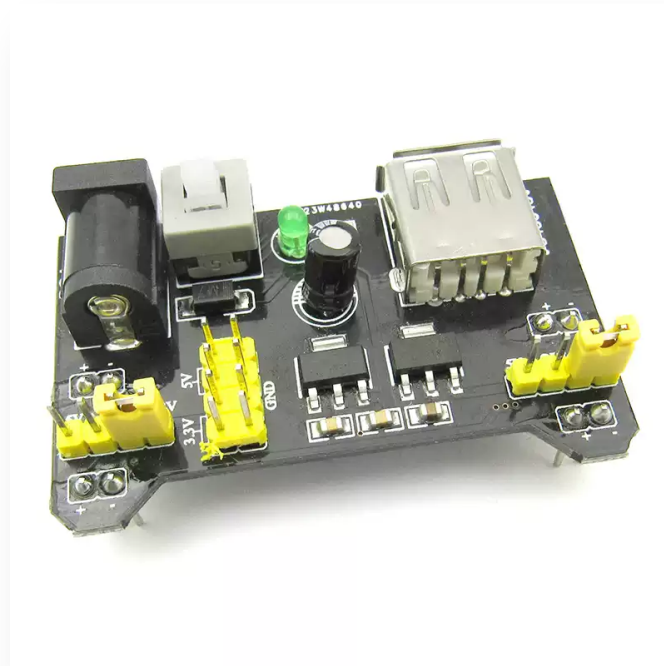


MB-102 Breadboard Power Supply Module

Dual-rail 3.3 V / 5 V plug-in supply



Product Overview

A compact power-electronics module documented from the supplied archived product page. The specifications below separate confirmed ratings from operating guidance and identify the exact module variant where the source page contains multiple options.

Electrical and Mechanical Specifications

Parameter	Value
DC barrel input	6.5–12 VDC
USB input	5 VDC
Selectable rail A	3.3 V or 5 V
Selectable rail B	3.3 V or 5 V
Maximum output current	Up to 700 mA total, thermally limited
Interface	Standard solderless-breadboard power rails

Key Features

- Independent 3.3 V / 5 V rails
- USB and barrel-jack inputs
- On-board power switch
- Direct breadboard installation

Operating Notes

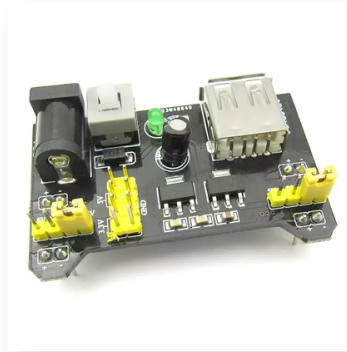
- Do not apply USB and barrel-jack power simultaneously unless the system design explicitly permits it.
- Check jumper positions before powering the breadboard.
- Maximum current depends on input voltage and regulator temperature.

Application and Connection Guide

APPLICATION & CONNECTION

USB OR DC INPUT

5 V / 6.5–12 V



BREADBOARD RAILS

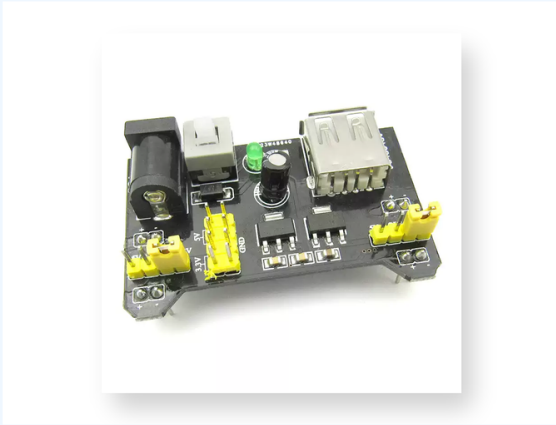
3.3 V / 5 V

Verify polarity and configure voltage/current before connecting the load.

Connection Sequence

1. Confirm the input source is within the stated range. 2. Verify input and output polarity. 3. Configure voltage and current limits with the load disconnected. 4. Connect the load or battery. 5. Monitor temperature during initial operation.

KEY PRODUCT ADVANTAGES



- 1 **Independent 3.3 V / 5 V rails**
- 2 **USB and barrel-jack inputs**
- 3 **On-board power switch**
- 4 **Direct breadboard installation**