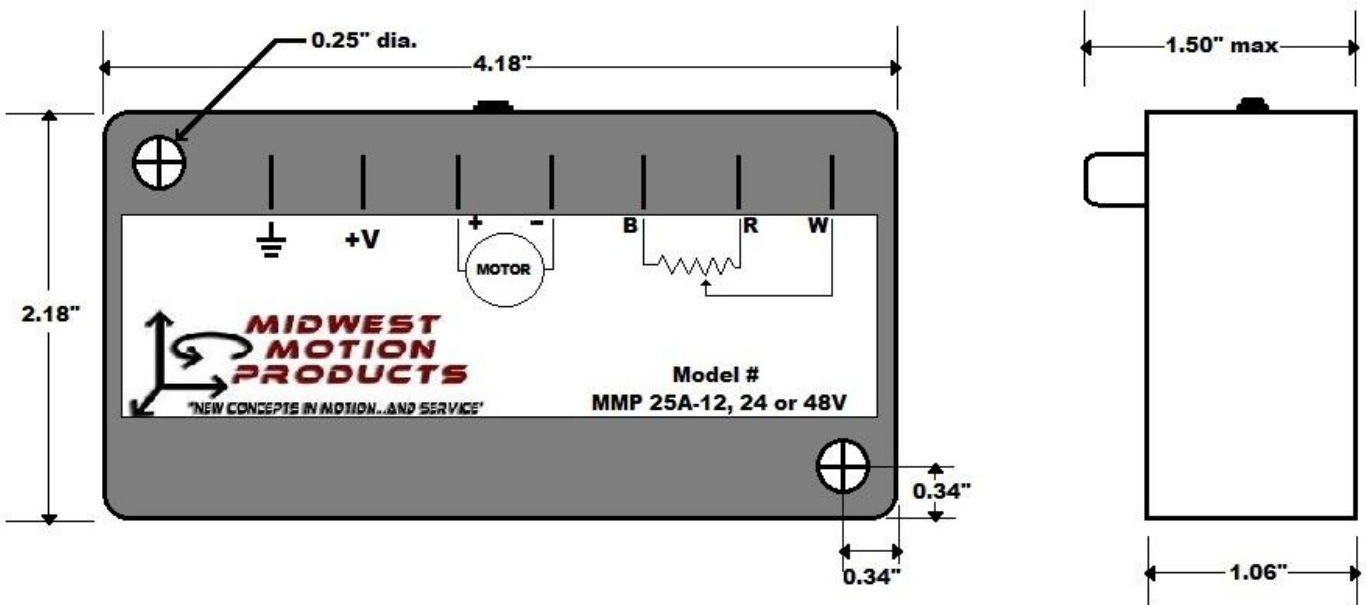




## Model MMP 25A-12V - DC Motor Speed Control



### Reliable:

- Designed to control the speed of a standard 12 Volt brushed DC motor.
- Maintenance free, time-tested design, solid state circuitry, minimal EMI / RFI noise
- Potted, rugged construction, designed for harsh environments. (IP65 Rated)

### Versatile:

- Operates from 10 to 20 VDC; Battery or other DC supply
- Peak "momentary" current is 40 amps (1 second max)
- Easily installed to any flat surface - two 1/4" diameter mounting holes
- Output pulse width can be varied for 0% to 98% duty cycle, switches at 22 KHz
- Compact size - 4.5" by 2" by 1.5" high.
- 24 & 48 Volt DC design also available\*

### Economical:

- Low cost, time-proven reliability, very low ripple output
- Electronic design offers longer life than mechanical switches.
- Solid state design with state of the art components.

## **MIDWEST MOTION PRODUCTS**

*Design, Manufacturing & Distribution – Motion Control Equipment*

10761 Ahern Avenue SE Watertown, MN 55388

Phone: 952-955-2626 Fax: 480-247-4096

[www.midwestmotion.com](http://www.midwestmotion.com)

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## Technical Specifications:

Supply Voltage:	10-20 Volts DC *
Output:	Current Sinking
Voltage Drop:	1 Volt Max, 1/2 V Typical
Current - Continuous / Peak (max):	25 Amps / 40 Amps (1 Second)++
Humidity:	to 100% condensing
Operating Temperature:	0 degrees to 65 degrees C
Storage Temperature:	-40 degrees to 85 degrees C
Enclosure:	Aluminum
Terminals:	.250 x .020 Quick Disconnect Male

**IMPORTANT NOTE: THE POLARITY OF THE DC INPUT VOLTAGE MUST BE OBSERVED, OR DAMAGE TO THE CONTROL COULD RESULT. Protect the unit from OVERCURRENT by using a 20A or 25A Slow Blow Fuse, in line with the (+) Power Input terminal.**

### Operation:

The MMP 25A-12V motor speed control operates on 10-20 Volts DC; battery power is acceptable. They are designed to control the output speed of a brushed PM DC motor, by varying the output pulse width from 0% to 98% duty. The MMP 25A-12V is easy to use, having just 7 “fast-on” interconnects— two for 12 Volt power, two for the motor, and three for the ‘pre-wired’ speed control potentiometer, one of which is included with each unit.

Also accepts 0-5 VDC analog command.

### Typical Applications:

Agricultural Machinery ~ Automated Guided Vehicles ~ Automotive & Transportation ~ Conveyors ~ Signage Motion ~ Battery Powered Robots ~ Chemical Feeder ~ Compressors ~ Conveyors ~ Fans & Blowers ~ Food Processing ~ Gear Motors ~ Hose & Cable take-up Reels ~ Hydrogen Generators ~ Linear Actuators ~ Mobile Robotics ~ Mobility and Accessibility Equipment ~ Paper Processing ~ Photo Processing ~ Portable Instruments ~ Pumps ~ RV's ~ Ventilators ~ Vibratory Feeders ~ Wire Feeders

++Adequate heat-sinking practices must be observed to attain 25A continuous current.

\*24 & 48 Volt DC designs also available.

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