



## DC 10-50V/60A Motor Speed Controller

Model: U6305

### INTRODUCTION

UCTRONICS DC 10-50V/60A Motor Speed Controller is designed to control the direction and speed of a DC motor by modulating current from 0~40A linearly with working voltage DC 10-50V. The max current (Short Time Current) is 60A

### FEATURES

- **Easy to install and operate**  
Simple potentiometer knob adjusts the motor speed from 0~100% smoothly.
- **Conveniently change the motor direction**  
The Forward-Brake-Reverse switch is convenient to change the direction of the motor without adjusting the order of the motor lines.
- **Excellent heat dissipation performance**  
Aluminum shell prevents it from easily damaged, holes on its side and top and six heatsinks are helpful for heat dissipation.
- **LED indicator**  
The LED indicator will light on when the module is power on.

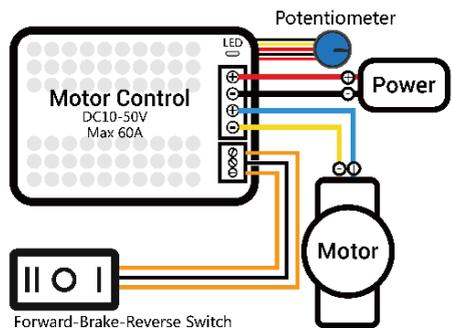
### APPLICATION

This DC motor speed controller can be widely used in controlling the speed of a fan/pump/other DC load, or to dim the brightness of DC lamps or LEDs.

### SPECIFICATIONS

Applicable Motor	Brush Motor
Supply / load voltage	DC 10-50V
Max Current / Short Time Current	60A (Only last for 10 seconds)
Continuous Current	40A
Power Range	0~2000W
Speed Modulation Range	0~100%
Speed Control Type	Current modulation by potentiometer (with switch)
Support Forward Reverse Rotation Control	Yes By Forward-Brake-Reverse Switch
Control Size	4.33 x 3.07 x 1.37 inch / 110 x 78 x 35mm
Net Weight	245g

### WIRING DIAGRAM



## **TROUBLESHOOTING**

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Refer to table below for a description of some common problems and their causes.

<b>Problem</b>	<b>Check Points</b>
Motor does not run	Check that power source is switched on. Reconfirm the power voltage level.
	Examine the potentiometer knob and correct it
	Check that motor is not overloaded.
Motor runs, but in wrong direction	Check the Forward-Brake-Reverse switch and correct it.
Motor runs, but speed can't be adjusted	Examine the potentiometer knob and correct it
	Check that motor is not overloaded.
Motor runs, but speed is too high or too low	Reconfirm motor specification.

## **CONTACT US**

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If you have any issue with this product, please feel free to contact us:

Email: [support@uctronics.com](mailto:support@uctronics.com)

Website: [www.uctronics.com](http://www.uctronics.com)

## **NOTE**

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- DO NOT attempt to connect to AC power directly, it is a DC motor controller.
- DO NOT attempt to reverse the positive and negative polarity of the POWER.
- DO NOT attempt to reverse the positive and negative polarity of the MOTOR.
- DO NOT attempt to control a brushless motor, this controller only supports brush motor.
- Double check all connections before applying power and always turn off the power supply before making any wiring changes.
- If the motor control output current for 60A for more than 10s, it will cause the components to overheat and being damaged.