



# DC Brush Motor Driver User's manual Model: DB300-0

Thank you for purchasing 3MEN product. This operating manual describes handling procedures and safety precautions.

- Please read it thoroughly to ensure safe operation.
- Always keep the manual where it is readily available.

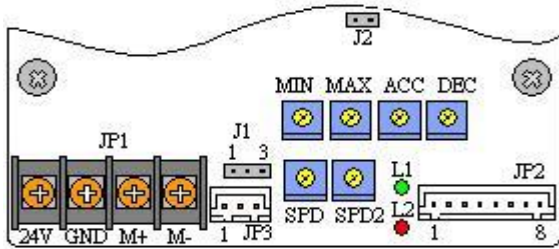
## Product Features

- Torque compensation function
- PWM control mode, Low noise, long lifetime
- Electric brake control, Swift CW/ CCW direction change
- 24V/12V power input selection
- Max/Min speed setting, ACC/DEC time setting
- Internal/ external speed control selection
- IR adjustment
- 2 segments speed control

## Unpacking Notice

- Motor driver .....1pcs
- User's manual ..... 1pcs
- 8 Pin connector ..... 1pcs
- 3 Pin connector ..... 1pcs

## Names and Functions of Driver



### Speed control button [Setting parameter, 6 Pin]

Name	Description
SPD	Speed control (CW →fast, CCW→slow)
SPD2	Speed control (CW →High, CCW→Low)
MIN	Min speed control (CW →fast, CCW→slow)
MAX	Max speed control (CW →fast, CCW→slow)
ACC	Acceleration time setting, range is from 0.5~10sec
DEC	Deceleration time setting, range is from 0.5~10sec

### JP1 Connector [Input position, 4 Pin]

Name	Description
+24V	Power Input, DC24V+
GND	Power Input, 0V (GND)
MOTOR+	DC Motor Wires Connection
MOTOR-	DC Motor Wires Connection

### JP3 Connector [External speed control selection, 3 Pin]

Pos.	Name	Descriptions	Color
1	LV	External speed control terminal	(Black)
2	Wiper	External speed control terminal	(Green)
3	HV	External speed control terminal	(Red)

NOTE: Please use 5~20KΩ VR □ Voltage adj. speed Range is 0~+5V □

### J1 Connector [Internal/External speed control selection, 3 Pin]

Setting	Name	Descriptions
<input type="checkbox"/>	EXT	External knob for motor speed adjustment
<input type="checkbox"/>	INT	Internal knob for motor speed adjustment

## Specifications

Product /Model	DC Brush Motor Driver/ DB300-0
Power Input	DC12V/24V (Jumper Setting)
Driving Power	300W (continuous), 500W (peak)
Driving Mode	PWM, 20KHz
Functions	Motor Swift CW / CCW Internal / External speed control selection ACC/DEC time setting Brake
Speed setting	Internal speed control External speed control (VR or 0~5V)
Input signal	CW/CCW, RUN/STOP Full speed, Voltage adj. Speed, Brake
Op. temp./Humidity	0 ~ +50°C / <85% RH
Dim. /weight	72(L)x108(W)x31(H) mm / 230g

Specification subject to change without prior notice.

### JP2 Connector [Function control, 8 Pin]

Pos.	Name	Descriptions	Color
1	ERR	Alarm Signal When the driver or motor is abnormal, it will have an output signal from this pin for alarm.	(Yellow)
2	COM	0V	(Green)
3	CW	CW Direction Control When CW is short with COM, the motor will rotate in CW direction. It also does ON/OFF control.	(Gray)
4	CCW	CCW Direction Control When CCW is short with COM, the motor will rotate in CCW direction. It also does ON/OFF control.	(Blue)
5	SPD2	When SPD2 is short with COM, the motor is controller by SPD2 for speed control.	(Orange)
6	BRK	Stop immediately or naturally control When BRK is short with COM, if motor comes from ON to OFF condition, the motor will stop immediately. When BRK is opened with COM, if motor comes from ON to OFF condition, the motor will stop naturally.	(White)
7	ADJ	Speed control It can accept 0-5V input to do speed control. (The jumper must be free)	(Black)
8		None	(Red)

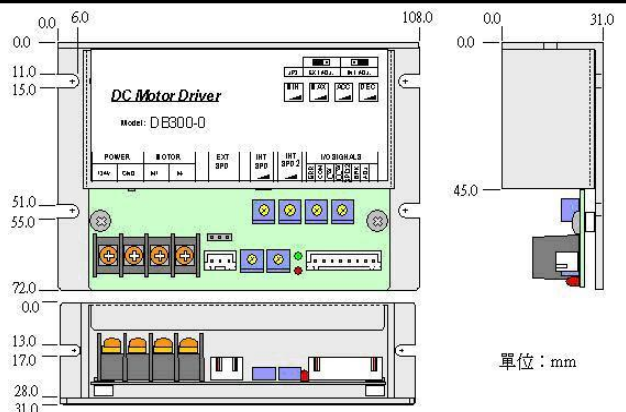
### J2 Connector [12V/24V selection, 2 Pin]

Setting	Name	Descriptions
Short	12V	Setting DC12V for Motor/Driver Power
Open	24V	Setting DC24V for Motor/Driver Power

### Light [ 2 Pin]

Setting	Name	Descriptions
L1	Green	Power
L2	Red	ERR

## Dimensions (Unit: mm)



- Any specification change or revised of user manual are subject to change without prior notice.

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