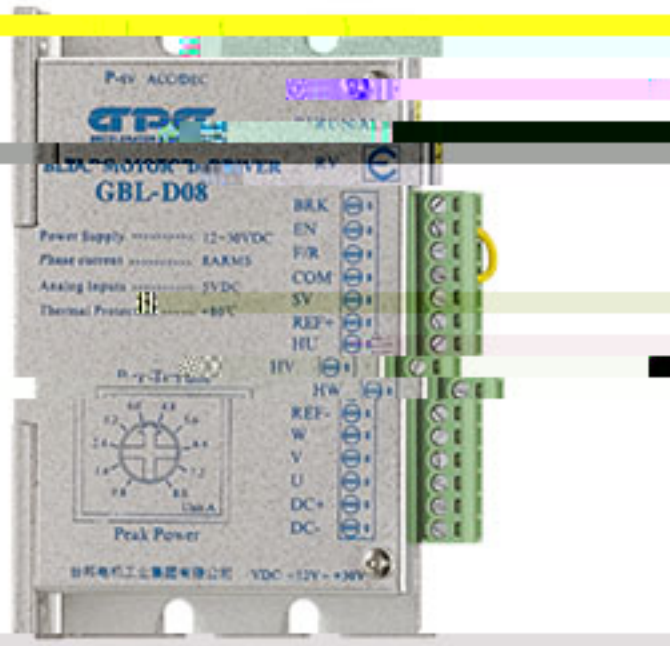
GBL-D08 通用型直流无刷电机驱动器 GBL-D08 Universal Brushless DC Motor Driver

■ 产品特点 Product Features



- 可驱动小于 120W 无刷电机
- 可进行加减速时间设定
- 拥有功率保护功能（最大电流设定）
- 可使用外部电位器调速
- 可使用 PWM 调速
- 可使用外部模拟电压调速
- 尺寸小巧，易于安装
- Can drive brushless motor less than 120W..
- Acceleration and deceleration time can be set
- Power protection (maximum current setting)
- Speed adjustment using external potentiometer
- Can use PWM speed regulation
- Adjustable speed with external analog voltage
- Compact size, easy install..

■ 产品规格 Product Specification

项目 Item	单位 Units	参数 Parameters
输入电压 Input voltage	VDC	最小值：12；典型值：24；最大值：30。Minimum value: 12; Typical value: 24; Maximum: 30
输出电流 Output current	A	8
霍尔信号电压 Hall signal voltage	V	5
霍尔驱动电流 Hall drive current	mA	20
外接电位器 External potentiometer	kΩ	10
外接模拟量电压 Input analog voltage	VDC	5
速度控制范围 Speed control range	RPM	200-30000

■ 功能选择设定 Function Selection Settings

- **最大电流输出设定**

最大电流的输出设定，是保护直流无刷电机在处于过载运行的时候不被损坏，通过启动驱动器过流报警并停止驱动器作业来达到此目的。设定的电流值应与电机的额定电流值相匹配并注意实际使用的电源电压，设定范围：1.6~8A。

- **加 / 减速时间设定**

电位器可设定电机加速与减速时间。加速时间是电机从停止到达电机额定转速所需的时间。减速时间是电机从额定转速到电机停止所需的时间，通过左右旋转可以调节加减速时间。设定范围：0.3~15s。

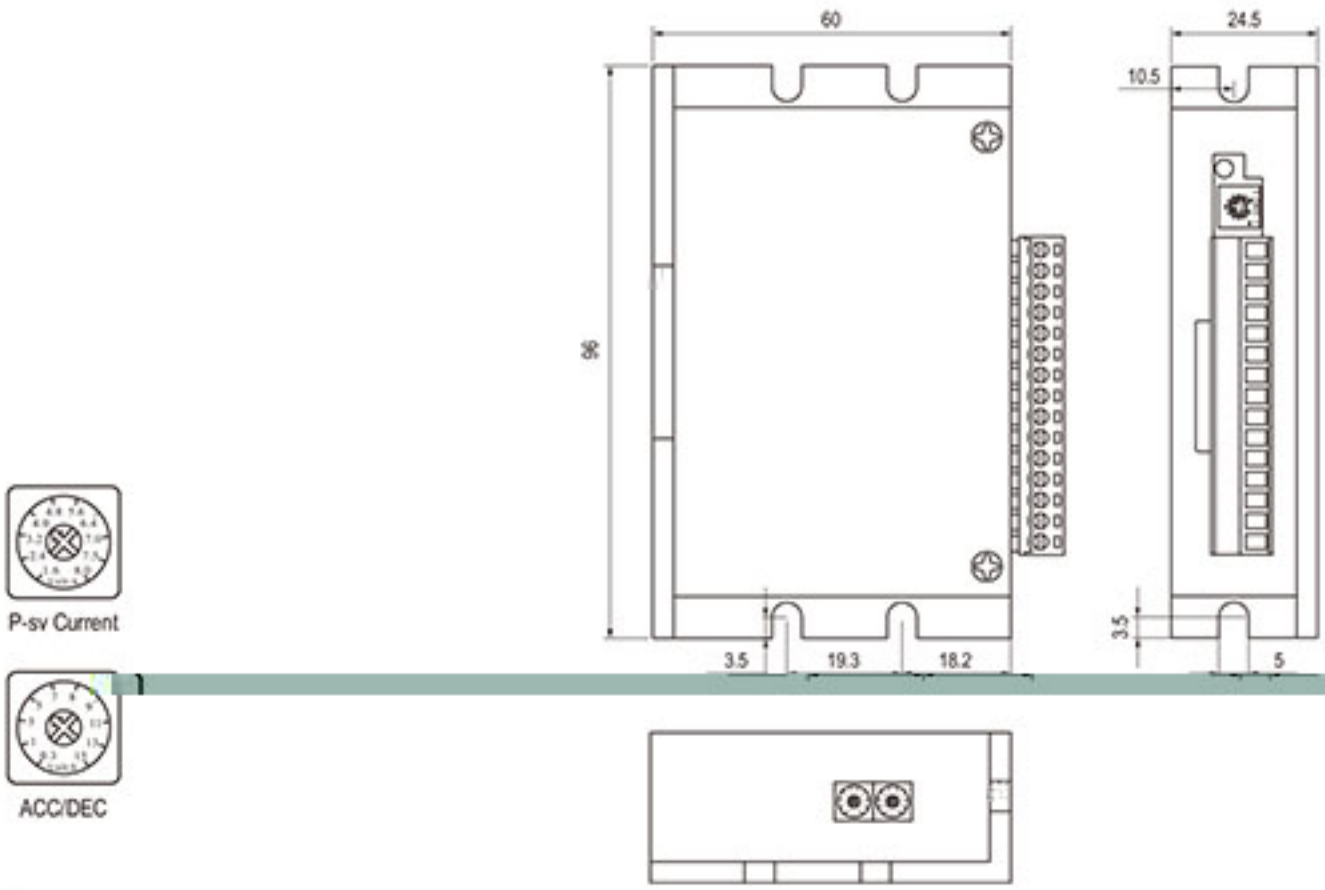
- **Maximum current output setting**

The output setting of maximum current is to protect the brushless dc motor from being damaged when it is in overload operation. This is achieved by starting the overcurrent alarm of the drive and stopping the operation of the drive. The set current value should match the rated current value of the motor and pay attention to the actual power supply voltage. Setting range: 1.6~8A.

- **Acceleration/deceleration time setting**

The potentiometer can set the acceleration and deceleration time of the motor. The acceleration time is the time required for the motor to reach the rated speed from the stop of the motor, and the deceleration time is the time required for the motor to stop from the rated speed of the motor. The acceleration and deceleration time can be adjusted by rotating around. Setting range: 0.3~15s.

■ 端口信号说明 Port Signal Specification

CN5 端子编号 CN5 Terminal Number	信号种类 Signal Types	信号说明 Signal Instructions
BRK	控制信号 Control signal	电机快速刹车信号端口，BRK 端口与 COM 端口断开电机为正常运行，短接闭合为快速刹车 Motor fast brake signal port, BRK port and COM port disconnect motor for normal operation, short connection closure for fast brake
EN		停止信号控制端，EN 端口与 COM 端口断开为电机缓慢停止，短接闭合为正常运行 Stop signal control end, EN port and COM port disconnect for slow motor stop, short connection closure for normal operation
F/R		电机转动方向控制端口，F/R 端口与 COM 端口断开电机为顺时针转动，短接闭合为逆时针转动 Motor rotation direction control port, F/R port and COM port disconnect motor for clockwise rotation, short connection closure for counterclockwise rotation
COM		公共端口 (0V 参考电平) Public port (0V reference level)
SV		调速信号输入端口，外部电位器调速时中间引出端连接此处，两侧分别接 REF+ 与 COM 端口 Speed regulating signal input port. When the external potentiometer is regulating, the middle outlet end is connected here, and both sides are connected to REF+ and COM ports respectively
REF+	霍尔信号 Hall signal	直流无刷电机霍尔信号电源线 DC brushless motor hall signal power wire
HU		直流无刷电机霍尔信号 HU DC brushless motor hall signal HU
HV		直流无刷电机霍尔信号 HV DC brushless motor hall signal HV
HW		直流无刷电机霍尔信号 HW DC brushless motor hall signal HW
REF-		直流无刷电机霍尔信号接地线 DC brushless motor hall signal ground wire
W	电机连接 Motor connection	直流无刷电机 W 相 DC brushless motor W phase
V		直流无刷电机 V 相 DC brushless motor V phase
U		直流无刷电机 U 相 DC brushless motor U phase
DC+	电源连接 Power connection	直流电源接入正极 (电压范围：12~30VDC) DC power access anode (voltage range: 12~30VDC)
DC-		直流电源接入负极 DC power is connected to the negative electrode

■ 外形尺寸 Overall Dimensions