

## BL-250M Stepping Motor Driver

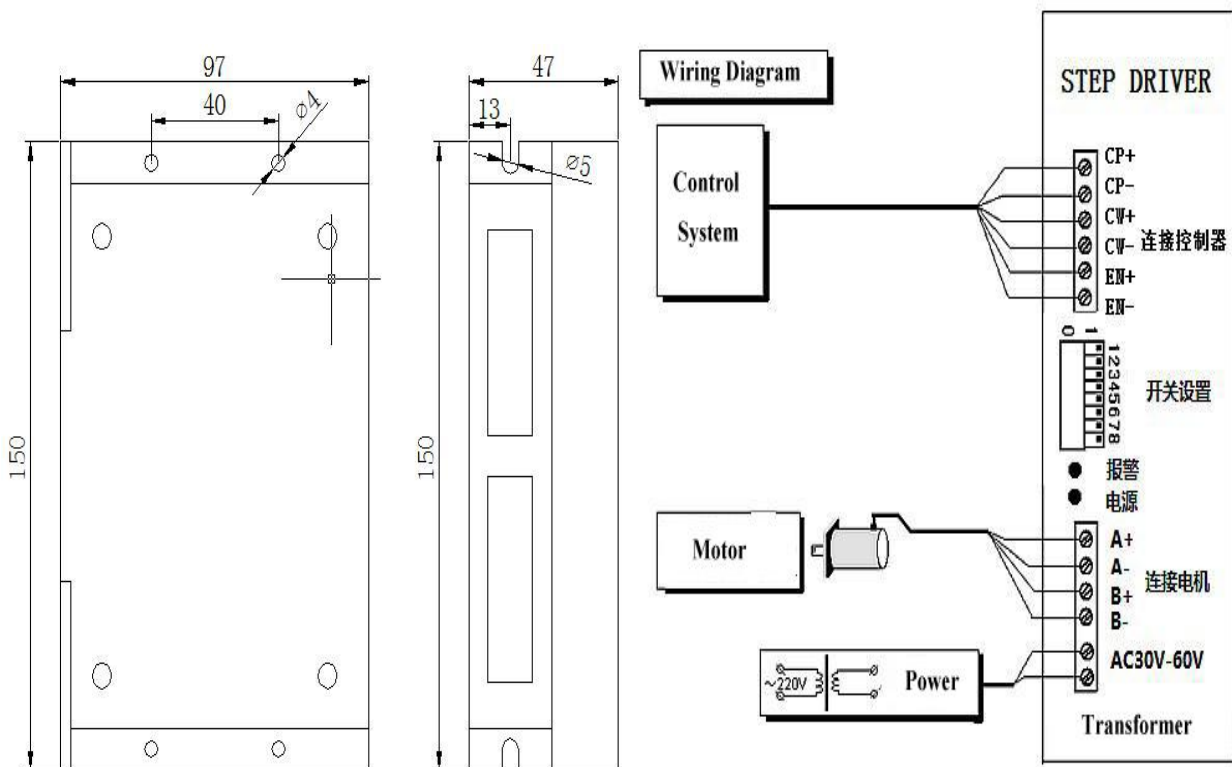
### 1、Outline

AC servo principle, constant current microstep control, smooth operation, low speed no crawling, reliable performance, voltage: **AC30-60V ( or DC40-80V)**, current: **2A-6A**, the number of microstep: **2-256**. Motors match 85BYGH and 86BYG .

### 2、Wiring Instructions

- 2.1 CP+ : pulse signal positive terminal
- 2.2 CP- : pulse signal negative terminal
- 2.3 CW+ : direction level signal positive terminal
- 2.4 CW- : direction level signal negative terminal
- 2.5 EN+ : offline level signal positive terminal
- 2.6 EN- : offline level signal negative terminal
- 2.7 A+ : Connected to motor phase A+
- 2.8 A- : Connected to motor phase A-
- 2.9 B+ : Connected to motor phase B+
- 2.10 B- : Connected to motor phase B-
- 2.11 ~AC ≤60V Isolation transformer power supply,avoid direct connection.

### 3、Figure Dimensions and Wiring Diagram



This driver sets the number of microstep and phase currents by dial switch. According to the label set: high number of microstep motors run more smooth when the control frequency allows; specific settings refer to the following table (ON = 0, OFF = 1):

SW4: 1=Half Current, 0=Full Current

Setting Microstep					Setting Current	
SW5	SW6	SW7	SW8	Microstep	P123	Current
0	0	0	0	1/2	000	2.00A
0	1	0	0	1/4	100	2.57A
0	0	1	0	1/8	010	3.14A
0	1	1	0	1/16	110	3.71A
0	0	0	1	1/32	001	4.28A
0	1	0	1	1/64	101	4.86A
0	0	1	1	1/128	011	5.43A
0	1	1	1	1/256	111	6.00A
1	0	0	0	1/5		
1	1	0	0	1/10		
1	0	1	0	1/25		
1	1	1	0	1/50		
1	0	0	1	1/125		
1	1	0	1	1/250		

**4、 Note (24V DC Power)**

4.1 Common anode connection: respectively, CP+, CW+, EN+ connected to the same external system control power. Input signal through the CP-, CW-, EN - added functions at a low level.

4.2 Common cathode connection: respectively CP-, CW-, FREE- connected to the same external system ground terminal (SGND, and power ground isolation), the input signal through the CP+ join, CW+, EN+ join in the high work.

**5、 Sales Principle:**

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Also, we will work together to help users have a good understanding of our products in order to use them better. It is our pleasure to work with users to discuss the questions of technical aspects during using this product. All products have one year warrantee and life-long repair service.