

DM860 Step driver motor controller microstep motor brushless dc motor drivers for 57 86 stepper motor Nema23 Nema34



Product features

- 1. Supply voltage : DC24-80V or AC18-50V
- 2. Drive current: 2.4-7.2A
- 3. Subdivision precision: 2-200 Subdivision options
- 4. opto-isolated signal input
- 5. Motor noise optimization function
- 6. Can drive any 2.0A below current 2-phase or 4-phase hybrid stepper motor
- 7. 200KHz chop frequency

Electrical characteristics

Input current	24~80V DC power supply, capacity: not less than 200VA. Typical value: DC36V
Output current	2.4A~7.2A, 8 gears adjustable, Resolving power 0.5A
Drive mode	Double constant current PWM drive output
insulation resistance	Normal pressure and temperature >500M Ω
Insulation strength	Normal pressure and temperature 500V/min
Weight	About 400g

Environmental requirements

Cooling method	Natural cooling
Use occasion	Avoid dust, oil mist and corrosive gases
Use temperature	0°C~+50°C
Ambient humidity	<80%RH, No condensation, no frost
Shake	Maximum not more than 5.7m/s ²

Current output setting table

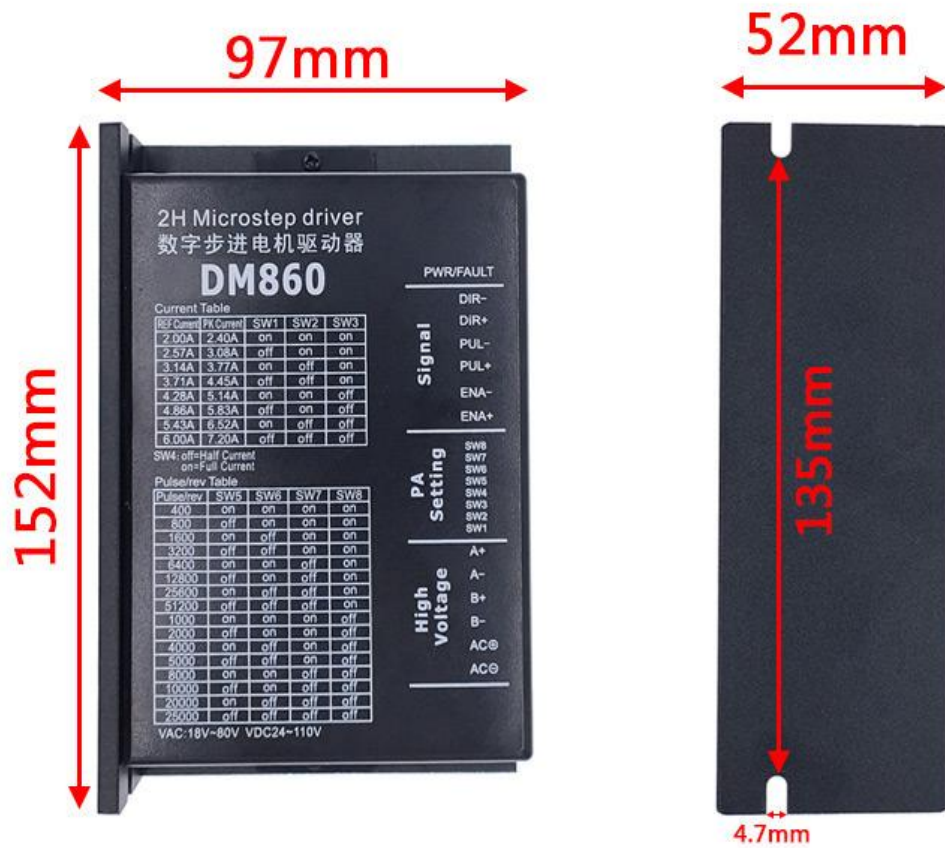
Output peak current	SW1	SW2	SW3
2.40A	on	on	on
3.08A	off	on	on
3.771A	on	off	on
4.45A	off	off	on
5.14A	on	on	off
5.83A	off	on	off
6.52A	on	off	off
7.20A	off	off	off

Subdivision schedule

Subdivision multiple	Step number/Circle (1.8°/whole step)	SW5	SW6	SW7	SW8
2	400	on	on	on	on
4	800	off	on	on	on
8	1600	on	off	on	on
16	3200	off	off	on	on
32	6400	on	on	off	on
64	12800	off	on	off	on
128	25600	on	off	off	on
256	51200	off	off	off	on
5	1000	on	on	on	off
10	2000	off	on	on	off
20	4000	on	off	on	off
25	5000	off	off	on	off
40	8000	on	on	off	off
50	10000	off	on	off	off
100	20000	on	off	off	off
200	40000	off	off	off	off

Full current/Half current set

SW4:ON=Full current SW4:OFF=Half current



2H Microstep driver
数字步进电机驱动器

DM860

Current Table

Ref Current	Pk Current	SW1	SW2	SW3
2.00A	2.40A	on	on	on
2.57A	3.08A	off	on	on
3.14A	3.77A	on	off	on
3.71A	4.45A	off	off	on
4.28A	5.14A	on	on	off
4.86A	5.83A	off	on	off
5.43A	6.52A	on	off	off
6.00A	7.20A	off	off	off

SW4: off=Half Current
on=Full Current

Pulse/rev Table

Pulse/rev	SW5	SW6	SW7	SW8
400	on	on	on	on
800	off	on	on	on
1600	on	off	on	on
3200	off	off	on	on
6400	on	on	off	on
12800	off	on	off	on
25600	on	off	off	on
51200	off	off	off	on
10000	on	on	on	off
20000	off	on	on	off
40000	on	off	on	off
80000	off	off	on	off
100000	off	on	off	off
200000	on	off	off	off
250000	off	off	off	off

VAC: 18V-80V VDC24-110V

PWR/FAULT

DIR-
DIR+
PUL-
PUL+
ENA-
ENA+

PA
Setting

High
Voltage

SW8
SW7
SW6
SW5
SW4
SW3
SW2
SW1
A+
A-
B+
B-
AC⊕
AC⊖



