

Product features

1. Supply voltage : DC12-36V or AC12-24V
2. Drive current: 0.3-2.0A
3. Subdivision precision: 1-128 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	12V-36V DC power supply, Typical value: DC36V
Output current	0.3A-2.0A, 8 gears adjustable
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 140g

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

Input signal interface function

Symbol mark	Function	Detailed description
PVL	Step pulse signal	The falling edge is valid, and the motor takes a step each time the pulse is changed from high to low.-5.5V≤Low level≤0.3V,3.6V≤High level≤5.5V,pulse width>2.5uS
DIR	Directional control signal	Change the direction of the motor.-5.5V≤Low level≤0.3V,3.6V≤High level≤5.5V,pulse width>2.5uS
VCC	Input signal photoelectric isolation positive terminal	Connect+5V power supply,+5V~+24 can drive,higher than +5V need connect current-limiting resistance.12V connect 1K,24V connect 2K
EN	Motor release signal	When effective (low level), the motor coil current is switched off, the drive stops working, and the motor is in free state.

Current output setting table

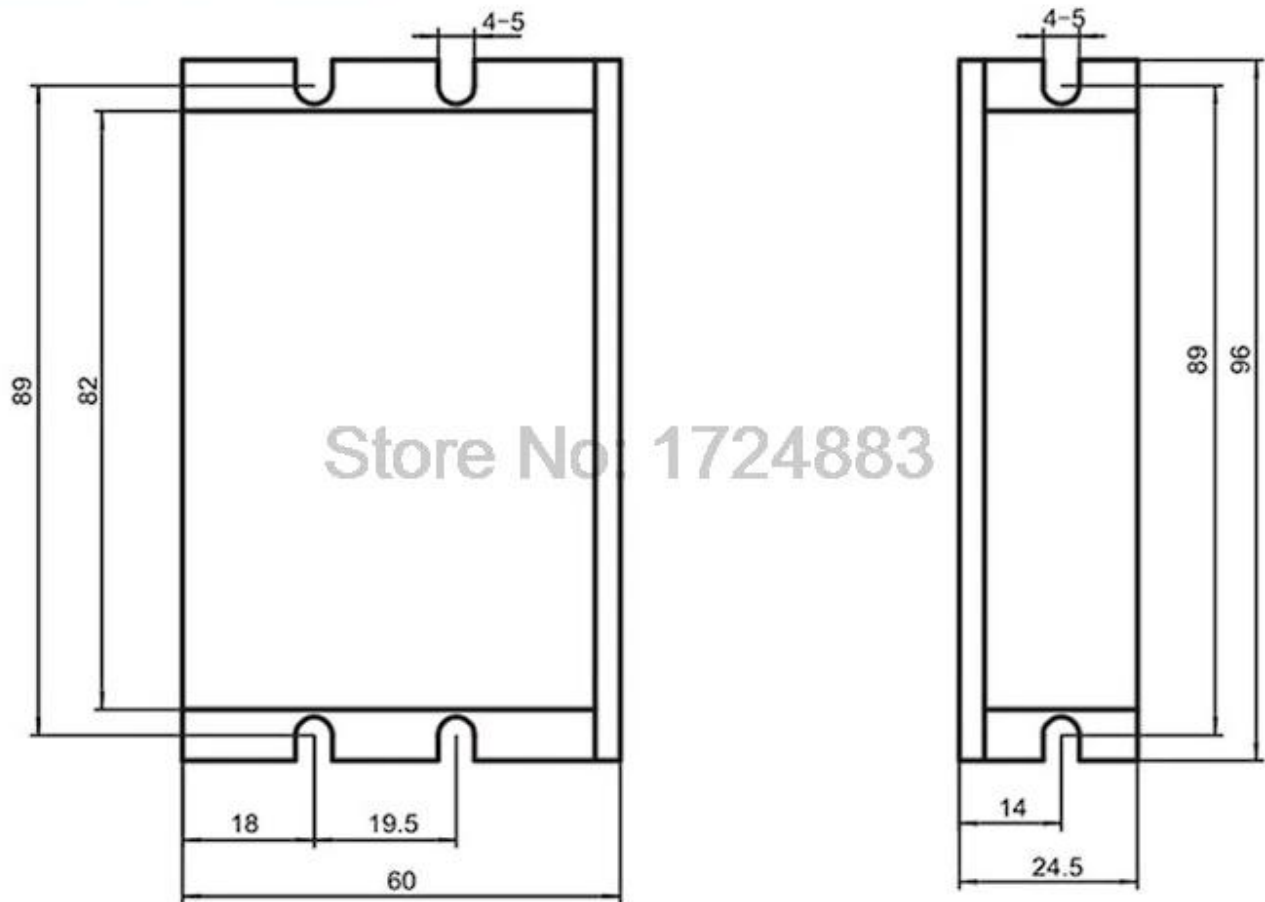
Output peak current	Sw1	Sw2	Sw3
0.3A	on	on	on
0.4A	off	on	on
0.5A	on	off	on
0.6A	off	off	on
1.0A	on	on	off
1.2A	off	on	off
1.5A	on	off	off
2.0A	off	off	off

Subdivision schedule

Step number/Circle	Micro	Sw5	Sw6	Sw7
200	1	on	on	on
400	2	off	on	on
800	4	on	off	on
1600	8	off	off	on
3200	16	on	on	off
6400	32	off	on	off
12800	64	on	off	off
25600	128	off	off	off

SW4:When set to ON, the standby current is set current, and when set to OFF, the standby current is half of the set current, and the heating is reduced.

Installation size



*Recommended for side mounting, better heat dissipation.