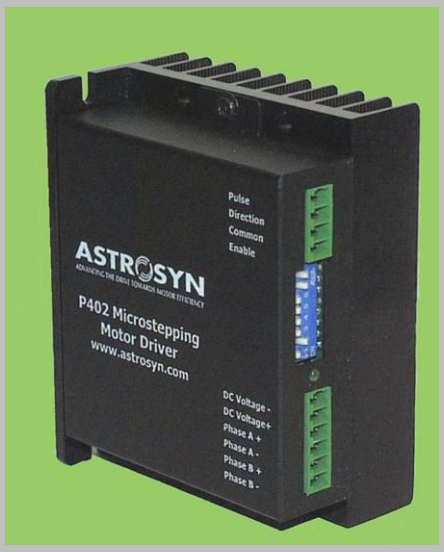
# Model P402A Stepper Motor Driver

## General Specification

Model P402A is a high performance microstepping driver suitable for 2-phase and 4-phase hybrid steppers requiring a drive current of up to 2A / phase. The design features an advanced bipolar constant-current chopper circuit with current control technology. This driver is suited to stepper motor control applications requiring low noise, low vibration, high speed and high precision.




**Key Features**

- Supply voltage to +40Vdc, current to 2.0A
- Inaudible 20khz chopping frequency
- TTL compatible and optically isolated input signals
- Automatic idle current reduction
- Mixed-decay current control for reduced motor heating
- 15 selectable step resolutions in decimal and binary
- Microstepping to 51,200 steps/revolution
- Step / direction and clockwise / counter clockwise inputs
- Suitable for 4, 6 or 8 lead wire motors
- Overcurrent and overvoltage protected
- Short circuit protected
- Compact size

**Additional Specifications**

| | |
|---|---|
| Drive Current: | Adjustable from 0.25A to 2.0A |
| Supply Voltage: | Input voltage from +14V to +40Vdc |
| Step Control: | Half step or microstepping |
| Control Inputs: | Connections for pulse, direction and enable signals |
| Pulse Signal: | Speed control to maximum frequency 200 kHz |
| Direction Signal: | Clockwise or counter-clockwise rotation |
| Enable Signal: | Driver enable or disable |
| Logic Signals: | Current from 6mA to 30mA |
| Material: | Black coated aluminium with integral heatsink |
| Mounting: | Free standing or via mounting holes |
| Dimensions (WxHxD): | 95 x 76 x 45 mm |
| Mass: | 300g |

Astrosyn International Technology Ltd
The Old Courthouse, New Rd Ave, Chatham, Kent, ME4 6BE, England
Tel +44 (0) 1634 815175 Fax +44 (0) 1634 826552 www.astrosyn.com