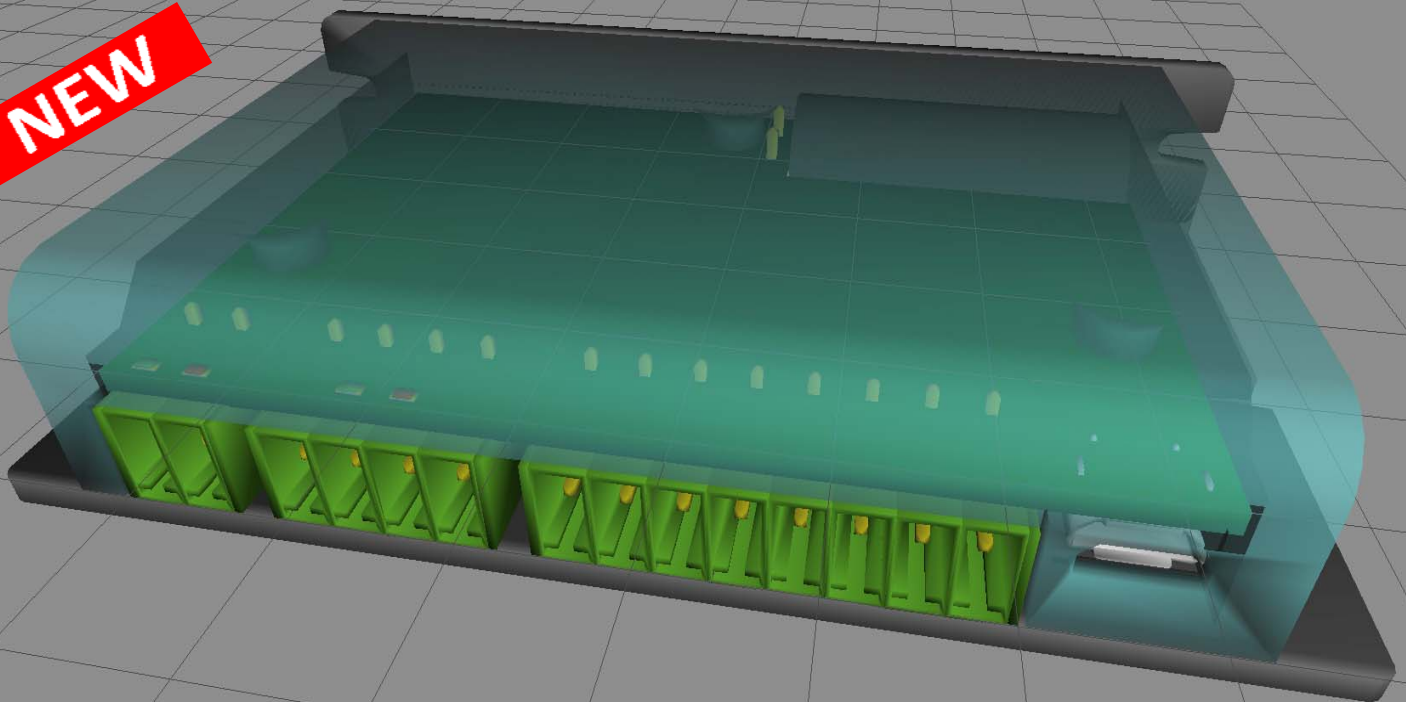


ADVANCED EQUIPMENT

Step Motor Driver ADV-B-042-24-02

- Super slim design
- High power and cost efficiency
- New architecture
- Up to date components
- High resolution
- Open loop system
- Wide range of modifications on demand

NEW



New generation of Step motor drivers

The newest Step Motor Driver ADV-B-042-24-02 is a modern trend of the market. Advanced solutions we put into its design sets the new level of engineering.

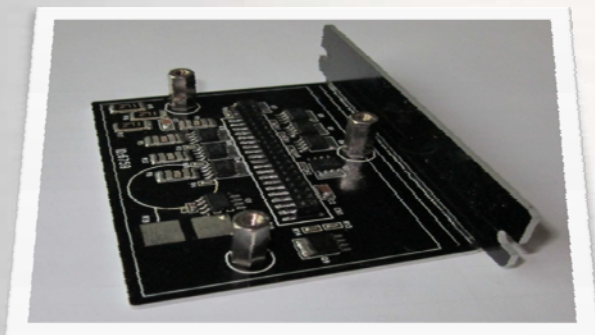
The ADV-B-042-24-02 family is a high performance micro-stepping drivers based on one of the most advanced technologies in the world today. They are suitable for driving bipolar hybrid step motors. By using advanced bipolar constant-current technique, they can output more speed and power from the same motor, compared with traditional technologies such as L/R drivers. Its current control technology allows coil current to be well controlled, with relatively small current ripple and results in less motor heating.

Features

- ✓ High performance, cost-effective
- ✓ Supply voltage +24VDC
- ✓ Output current up to 4.2A
- ✓ Pure-sinusoidal current control technology
- ✓ Pulse input frequency up to 500 KHz
- ✓ Optically isolated input / output
- ✓ Automatic idle-current reduction
- ✓ 16 selectable resolutions, up to 50,000 steps/rev
- ✓ Suitable for Bipolar step motors
- ✓ Support PULSE/DIR and CW/CCW control modes
- ✓ Setting parameters via isolated USB interface
- ✓ Graphic User interface available for Windows XP/7
- ✓ Over-voltage, over-current and over temperature protection

New Architecture

First on the market we suggest separate design for such type of devices. All components subject to high temperatures are mounted on a separate aluminum plate for better heat dissipation.

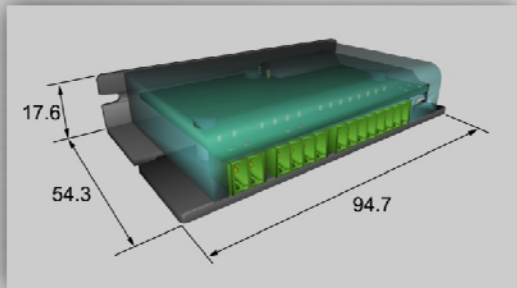


Due to this solution all main components of Control board stay at normal temperature while working. It gives High durability and stable parameters.

Applications

Suitable for a wide range of stepping motors of size Nema23 and 43 or similar, and usable for various kinds of machines, such as X-Y tables, labeling machines, laser cutters, engraving machines, and pick-place devices. Extremely suitable for applications expected to be low vibration, high speed and high precision.

High power efficiency



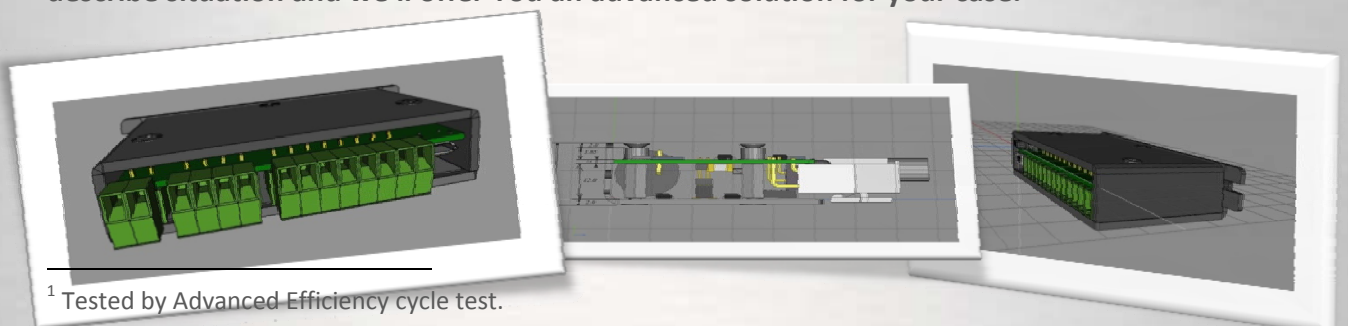
- Advanced technical design including Up to date components provide new level of power efficiency¹.
- Additionally, we get a super slim body.
- At the same time modern components allow to suggest competitive prices.

Electric Specifications ADV-B-042-24-02

Parameter	Value
Input Voltage	24VDC ±10%
Output Current	0.5 .. 4.2A
Driver Method	Bipolar PWM drive with DSP
Temperature	In use: 0..50 °C, In Storage: -20..70 °C
Humidity	In use: 35..85% (Non-Condensing), In Storage: 10..90% (Non-Condensing)
Vibration Resist	0.5G
Resolution	1/2.5, 1/5, 1/8, 1/10, 1/16, 1/18, 1/20, 1/25, 1/32, 1/40, 1/50, 1/100, 1/125, 1/180, 1/200, 1/250 (Default 1/50)
Control method	Pulse / Direction, CW / CCW
Control Max Frequency	500 kHz (Duty 50%)
Alarm Function	Over-Current, Over-Heat, Over-Voltage, Motor Connection
LED Display	Power Status, Alarm Status, CW direction, CCW direction
STOP Current	10% ~ 100% Be activated after 0.5 second after motor stop (Default 50%)
Rotational Direction	Normal / Inverse
Input Signals	Motor Free / Alarm Reset (Photocoupler Input)
Output Signals	Alarm (Photocoupler Output)

Wide range of modifications on customer's demand

Our design bureau suggests various solutions to fit customer's requests. Just ask a question, describe situation and we'll offer You an advanced solution for your case.



¹ Tested by Advanced Efficiency cycle test.

ADVANCED EQUIPMENT

WE ARE THE **F**IRST IN A NON-TYPICAL TASKS

www.adv-driver.com