YASA-BLDC-720W-48V

High Efficiency BLDC Motor Driver

720W-48VDC

Our latest innovation, the High Efficiency BLDC Motor Driver, is a powerhouse designed to elevate your applications to new heights. With a remarkable 720W output and operating at 48V with a peak current of 15Ampere, this motor driver is engineered for optimal performance and efficiency.

Unleash the full potential of your Brushless DC (BLDC) motors with our state-of-the-art driver, meticulously crafted to meet the demands of modern industrial and automation systems. Whether you're in robotics, manufacturing, or any industry that relies on precision motor control, our BLDC Motor Driver is the key to unlocking unprecedented efficiency and reliability.

Key Features:

High Power Output: Generate up to 720W of power to meet the demands of your most robust applications.

Wide supply voltage : The BLDC driver can work on wide supply input voltage i.e. 12V to 48VDC.

8A Continuous Input DC Current: Experience seamless operation with a continuous current of 8Ampere, ensuring smooth and precise control.

Energy Efficiency: Our motor driver is designed to maximize energy efficiency, reducing power consumption without compromising performance.

Compact Design: A sleek and compact form factor allows for easy integration into your existing systems, saving valuable space.

Applications:

Robotics: Perfect for high-performance robotic systems that require precision and agility.

Automation: Ideal for automated machinery, providing reliable and efficient motor control.

Electric Vehicles: Power electric scooters, bikes, or other small electric vehicles with confidence.

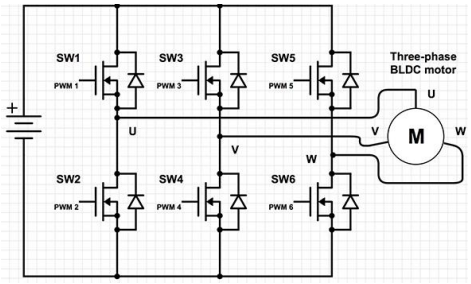
Industrial Machinery: Enhance the performance of industrial machinery and equipment with our advanced motor driver.

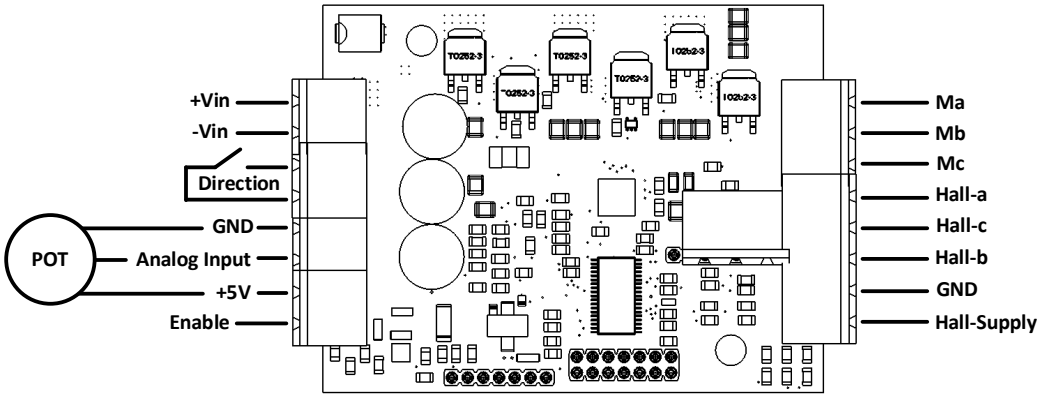
https://www.yasateknoloji.com

720W, 48VDC

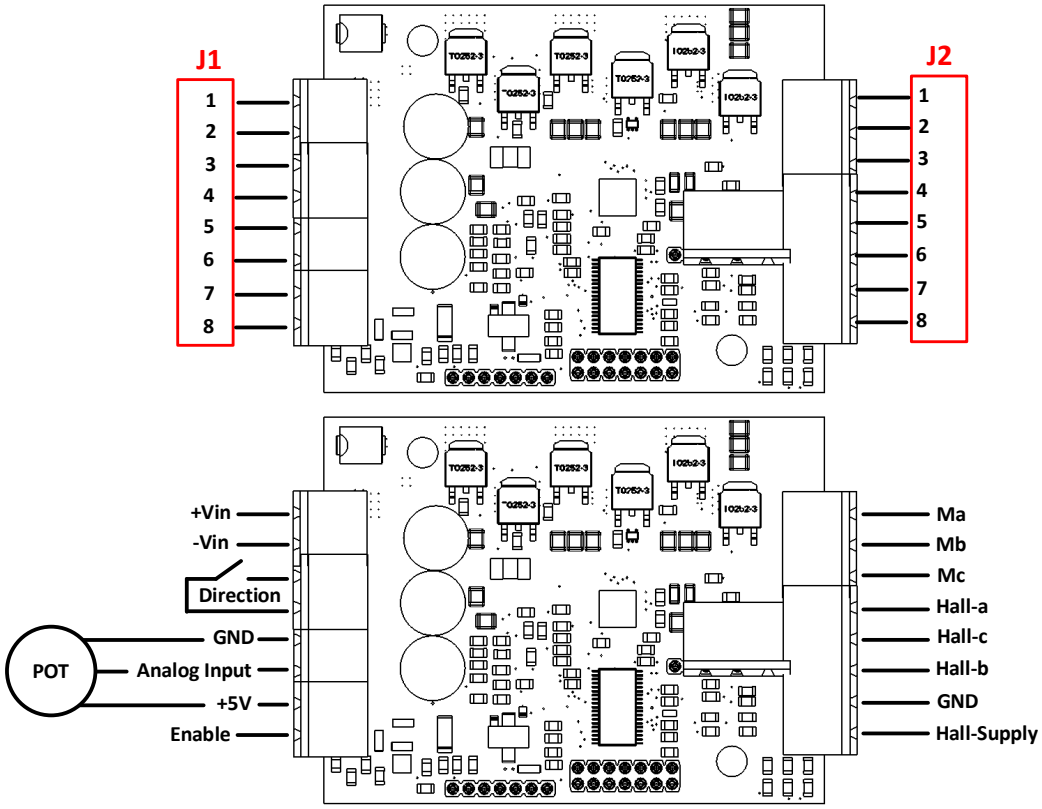
Explore the possibilities with our High Efficiency BLDC Motor Driver and take your projects to new horizons. This datasheet provides detailed specifications, features, and application insights to help you make an informed decision. Elevate your motor control experience – choose the best, choose innovation!

Input Voltage	12-48VDC
Commutation method	6-step pulse
Maximum Input Current	15A (T_A=100°C)
Circuit Working Temperature	0/+70°C
Position sensor input	Hall-Effect (3 phase)
OverTemperature Protection Limit	100°C
Over Current Protection Limit	20A DC input
Driver Temperature, DC input current and DC input voltage data storing	Up to 2 months via SD Card (optional)





RoHS compliant



J1 Connector				
1	+Vin		+Input (Main Supply)	DC input + (48V'a kadar)
2	-Vin		- Input (Main Supply)	DC input - (GND)
3	Direction +		Logic Input	When the pins are shorted, the motor shaft direction changes.
4	Direction -		Logic Input	
5	GND	POT	Supply	When an analog input voltage of up to 5V is applied, the speed changes in direct proportion. If you want to control speed with a potentiometer, connect the POT to pins 5, 6 and 7.
6	Analog Input	POT	Analog Input	
7	+5V	POT	Supply	
8	Enable		Logic Input	When +5V is applied to the enable pin, the BLDC motor driver is activated. The circuit does not work when left idle or connected to GND.

J2 Connector				
1	Ma		Output	Motor Phase-A Output
2	Mb		Output	Motor Phase-B Output
3	Mc		Output	Motor Phase-C Output
4	Hall-A		Logic Input	Hall-A Sensor Input
5	Hall-C		Logic Input	Hall-C Sensor Input
6	Hall-B		Logic Input	Hall-B Sensor Input
7	GND	GND	Supply	Hall Sensor Supply Ground
8	Hall-Supply	+5V	Supply	Hall Sensor Supply +5V

MECHANICAL DIMENSIONS