



BLDC Motor Controller Catalog



Catalog

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BLDC-BD50 24V-60V BLDC Motor Controller



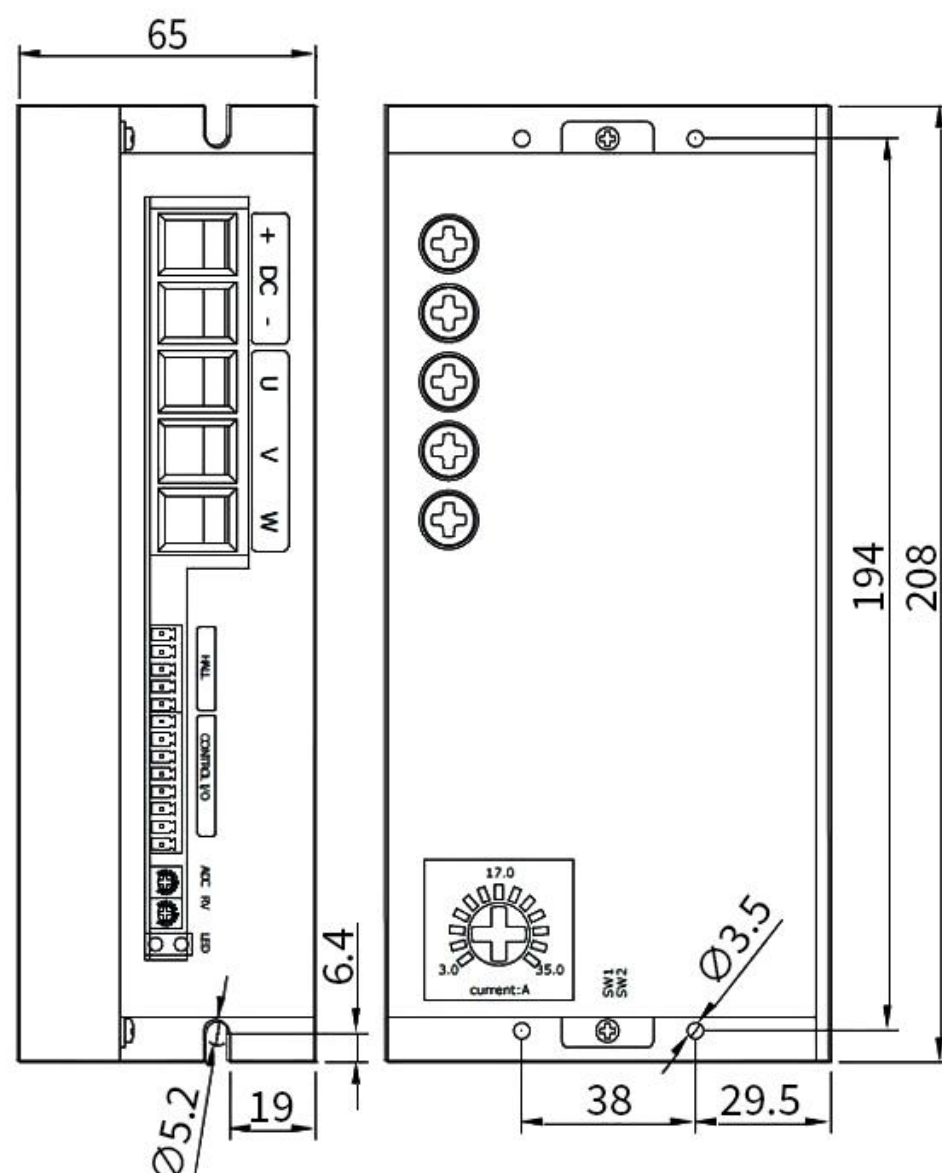
Applicable BLDC Motors

- 500W BLDC Motor - 24V/48V (SKU: BLDC-80-500W)
- 450W BLDC Gear Motor - 24V (SKU: BLDC-GEAR-B450W)
- 750W BLDC Gear Motor - 24V/36V/48V (SKU: BLDC-GEAR-B750W)
- 450W BLDC Worm Gear Motor - 24V (SKU: BLDC-GEAR-W450)
- 600W BLDC Worm Gear Motor - 36V (SKU: BLDC-GEAR-W600)
- 750W BLDC Worm Gear Motor - 36V (SKU: BLDC-GEAR-W750)
- 450W BLDC Planetary Gear Motor - 24V (SKU: BLDC-GEAR-P450)
- 600W BLDC Planetary Gear Motor - 36V (SKU: BLDC-GEAR-P600)

Specification

Model	BLDC-BD50
Rated Current	50A
Rated Input Voltage Range	DC +24~ +72V
Operating Temperature Range	-40~+80℃
IO Input	Supports NPN, PNP NPN: 0V is low, 5~24V is high, current 20mA PNP: 13V high output, low to ground
IO Output	Open Drain NPN Output Voltage: not exceed 30V, Current: 500mA
SV Input Characteristics	DC 0-5V Range or DC 0-10V Range Deadband Voltage Adjustment Range: 0.2~1.0V Input Internal Resistance:100k
PWM Input Characteristics	Frequency Range: 1~10kHz (50% duty cycle) Duty Cycle Range:0~100%(100Hz-1000Hz) Signal Voltage: DC 5~24V
Carrier Frequency	10~20kHz
485 Communication Parameters	ID: 1~255 Baud Rate: 9600/19200/38400/57600/115200 bps
CAN Communication Parameters	ID: 0~255 Baud Rate: 125/250/500 kbps
Load	150% of Rated Current Overload Duration: 30~1s (at 150% Rated)
External Temperature Sensor	Customizable ntc=mf52-103f-3435-55l
Control Method	Torque Loop (Open Loop) Speed Loop (Close Loop)
Acceleration and Deceleration Times	0.5-16s Motor Without Load
Overheating Protection	Inside the Driver: +85℃

Dimension (Unit: mm)



Note*

- RS485 (Modbus RTU) and CAN Bus cannot be used at the same time.
- VRM and PWM cannot be used at the same time.

BLDC-BD100 24V-60V BLDC Motor Controller



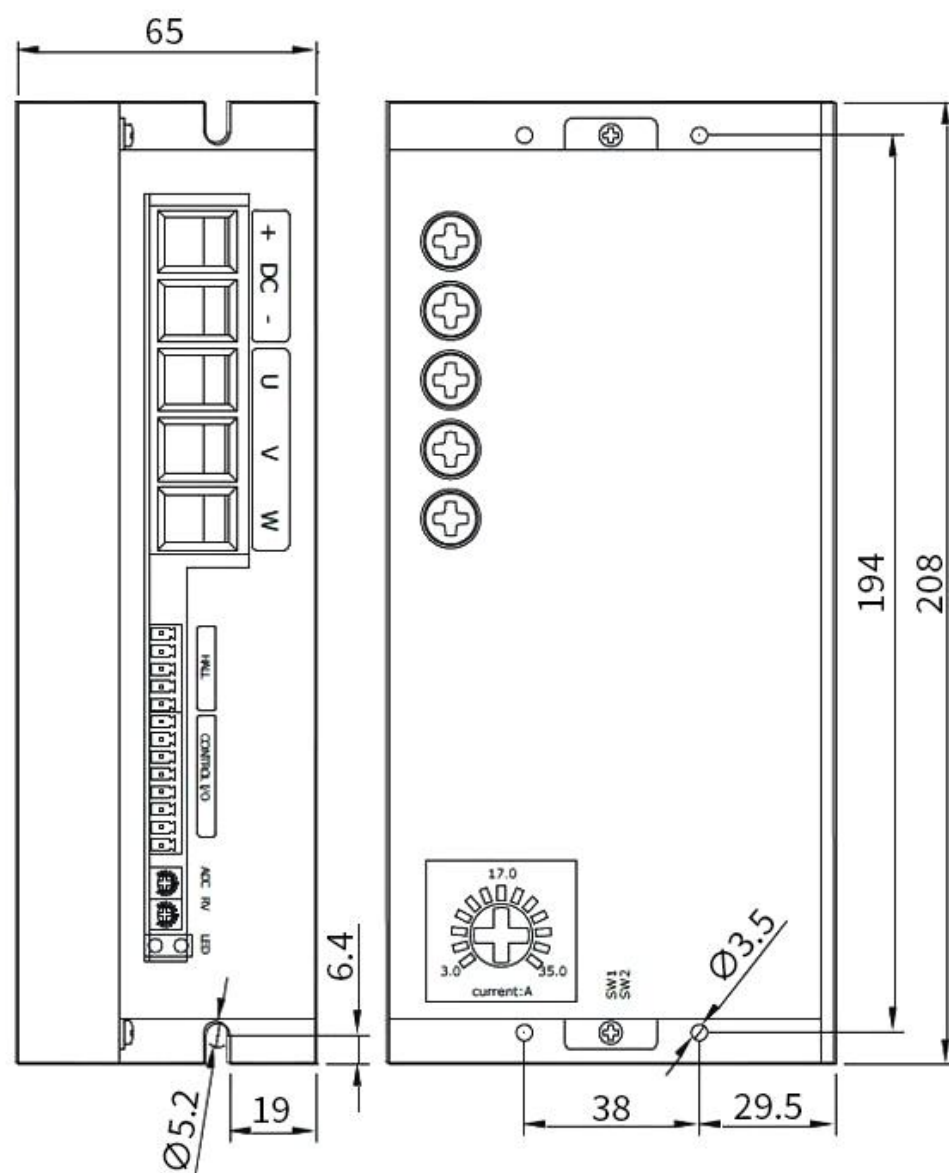
Applicable BLDC Motors

- 350W BLDC Motor - 12V (SKU: BLDC-86-350W)
- 600W BLDC Motor - 24V (SKU: BLDC-110-600W)
- 750W BLDC Motor - 24V/36V/48V (SKU: BLDC-80-750W)
- 1000W BLDC Motor - 24V/36V/48V (SKU: BLDC-110-1000W)
- 1500W BLDC Motor - 36V/48V (SKU: BLDC-110-1500W)
- 1900W BLDC Motor - 48V/72V (SKU: BLDC-110-1900W)
- 600W BLDC Worm Gear Motor - 24V (SKU: BLDC-GEAR-W600)
- 750W BLDC Worm Gear Motor - 24V (SKU: BLDC-GEAR-W750)
- 2000W BLDC Worm Gear Motor - 48V (SKU: BLDC-GEAR-W2000)
- 150W BLDC Planetary Gear Motor - 12V (SKU: BLDC-GEAR-P150)
- 200W BLDC Planetary Gear Motor - 12V (SKU: BLDC-GEAR-P200)
- 300W BLDC Planetary Gear Motor - 12V (SKU: BLDC-GEAR-P300)
- 450W BLDC Planetary Gear Motor - 12V (SKU: BLDC-GEAR-P450)
- 600W BLDC Planetary Gear Motor - 24V (SKU: BLDC-GEAR-P600)
- 1000W BLDC Planetary Gear Motor - 24V/36V/48V (SKU: BLDC-GEAR-P1000)
- 1500W BLDC Planetary Gear Motor - 36V/48V (SKU: BLDC-GEAR-P1500)
- 2000W BLDC Planetary Gear Motor - N48V (SKU: BLDC-GEAR-P2000)

Specification

Model	BLDC-BD100
Rated Current	75A
Power Supply	24V ~ 60V DC
Rated Input Voltage Range	DC +24~ +72V
Operating Temperature Range	-40~+80℃
IO Input	Supports NPN, PNP NPN: 0V is low, 5~24V is high, current 20mA PNP: 13V high output, low to ground
IO Output	Open Drain NPN Output Voltage: not exceed 30V, Current: 500mA
SV Input Characteristics	DC 0-5V Range or DC 0-10V Range Deadband Voltage Adjustment Range: 0.2~1.0V Input Internal Resistance: 100k
PWM Input Characteristics	Frequency Range: 1~10kHz (50% duty cycle) Duty Cycle Range: 0~100% (100Hz-1000Hz) Signal Voltage: DC 5~24V
Carrier Frequency	10~20kHz
485 Communication Parameters	ID: 1~255 Baud Rate: 9600/19200/38400/57600/115200 bps
CAN Communication Parameters	ID: 0~255 Baud Rate: 125/250/500 kbps
Load	150% of Rated Current Overload Duration: 30~1s (at 150% Rated)
External Temperature Sensor	Customizable ntc=mf52-103f-3435-55l
Control Method	Torque Loop (Open Loop) Speed Loop (Close Loop)
Acceleration and Deceleration Times	0.5-16s Motor Without Load
Overheating Protection	Inside the Driver: +85℃

Dimension (Unit: mm)



Note*

- RS485 (Modbus RTU) and CAN Bus cannot be used at the same time.
- VRM and PWM cannot be used at the same time.

BLDC-BLD120A 12V-30V BLDC Motor Controller



Applicable BLDC Motors

- 50W BLDC Motor - 24V (SKU: BLDC-60-50W)
- 100W BLDC Gear Motor - 36V (SKU: BLDC-57-100W)
- 30W BLDC Gear Motor - 12V/24V (SKU: BLDC-GEAR-B30W)
- 50W BLDC Gear Motor - 24V (SKU: BLDC-GEAR-B50W)
- 90W BLDC Gear Motor - 48V (SKU: BLDC-GEAR-B90W)
- 50W BLDC Worm Gear Motor - 36V (SKU: BLDC-GEAR-W50)

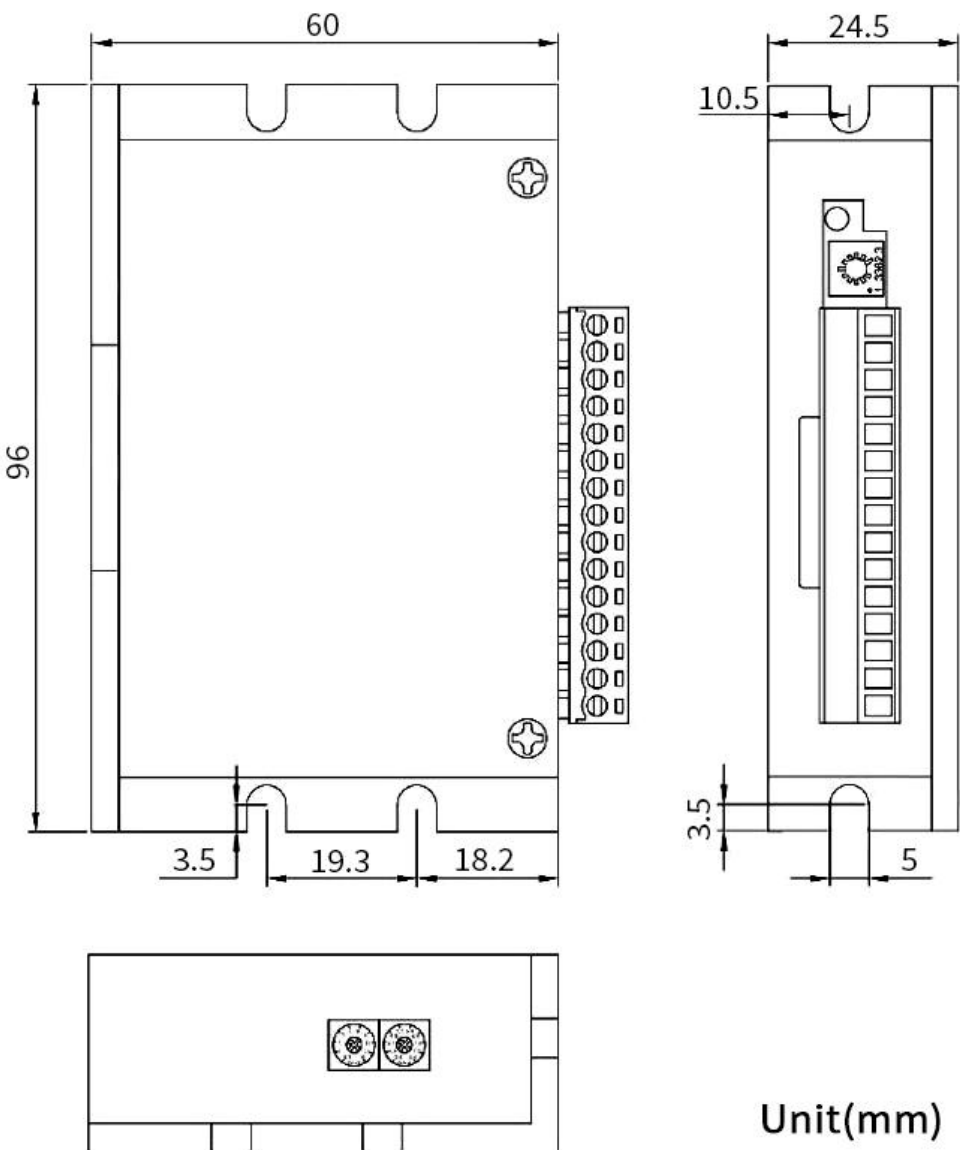
Specification

Model	BLDC-BLD120A
Power Supply	12V~30V DC
Typical Power	24V DC
Output Current	8A
Over Voltage Protection	5V
Under Voltage Protection	20mA
External Potentiometer	10KΩ
Input Analog Voltage	5V DC
Speed Control Range	20000rpm

Features

- **Flexible Speed Control:** This BLDC Motor Controller enables precise speed adjustment via external analog or PWM signals, offering smooth acceleration and deceleration settings.
- **Compact and Powerful:** Designed to drive motors up to 120W, the controller's compact size ensures space efficiency without compromising performance.
- **Overcurrent Protection:** Equipped with built-in power protection, the controller features a maximum current setting to safeguard the system from potential overloads.
- **Easy Operation:** Simplifies user interaction with an external potentiometer, making speed adjustments and operation effortless.
- **Versatile Compatibility:** Perfectly compatible with both 12V and 24V BLDC motors, providing reliable performance across a range of applications.

Dimension (Unit: mm)



Unit(mm)

BLDC-BLD300 18V-56V BLDC Motor Controller



Applicable BLDC Motors

- 50W BLDC Motor - 12V/24V (SKU: BLDC-60-50W)
- 100W BLDC Motor - 24V/48V (SKU: BLDC-57-100W)
- 200W BLDC Motor - 36V/48V (SKU: BLDC-86-200W)
- 50W BLDC Gear Motor - 12V (SKU: BLDC-GEAR-B50W)
- 90W BLDC Gear Motor - 12V/24V (SKU: BLDC-GEAR-B90W)
- 150W BLDC Gear Motor - 48V (SKU: BLDC-GEAR-B150W)
- 200W BLDC Gear Motor - 48V (SKU: BLDC-GEAR-B200W)
- 300W BLDC Gear Motor - 48V (SKU: BLDC-GEAR-B300W)
- 50W BLDC Worm Gear Motor - 24V (SKU: BLDC-GEAR-W50)
- 100W BLDC Worm Gear Motor - 12V/24V/36V/48V (SKU: BLDC-GEAR-W100)
- 150W BLDC Worm Gear Motor - 24V/36V/48V (SKU: BLDC-GEAR-W150)
- 200W BLDC Worm Gear Motor - 24V/36V/48V (SKU: BLDC-GEAR-W200)
- 300W BLDC Worm Gear Motor - 48V (SKU: BLDC-GEAR-W300)
- 750W BLDC Worm Gear Motor - 48V (SKU: BLDC-GEAR-W750)
- 100W BLDC Planetary Gear Motor - 12V/24V/36V/48V (SKU: BLDC-GEAR-P100)
- 150W BLDC Planetary Gear Motor - 24V/36V/48V (SKU: BLDC-GEAR-P150)
- 200W BLDC Planetary Gear Motor - 24V/36V/48V (SKU: BLDC-GEAR-P200)
- 300W BLDC Planetary Gear Motor - 48V (SKU: BLDC-GEAR-P300)

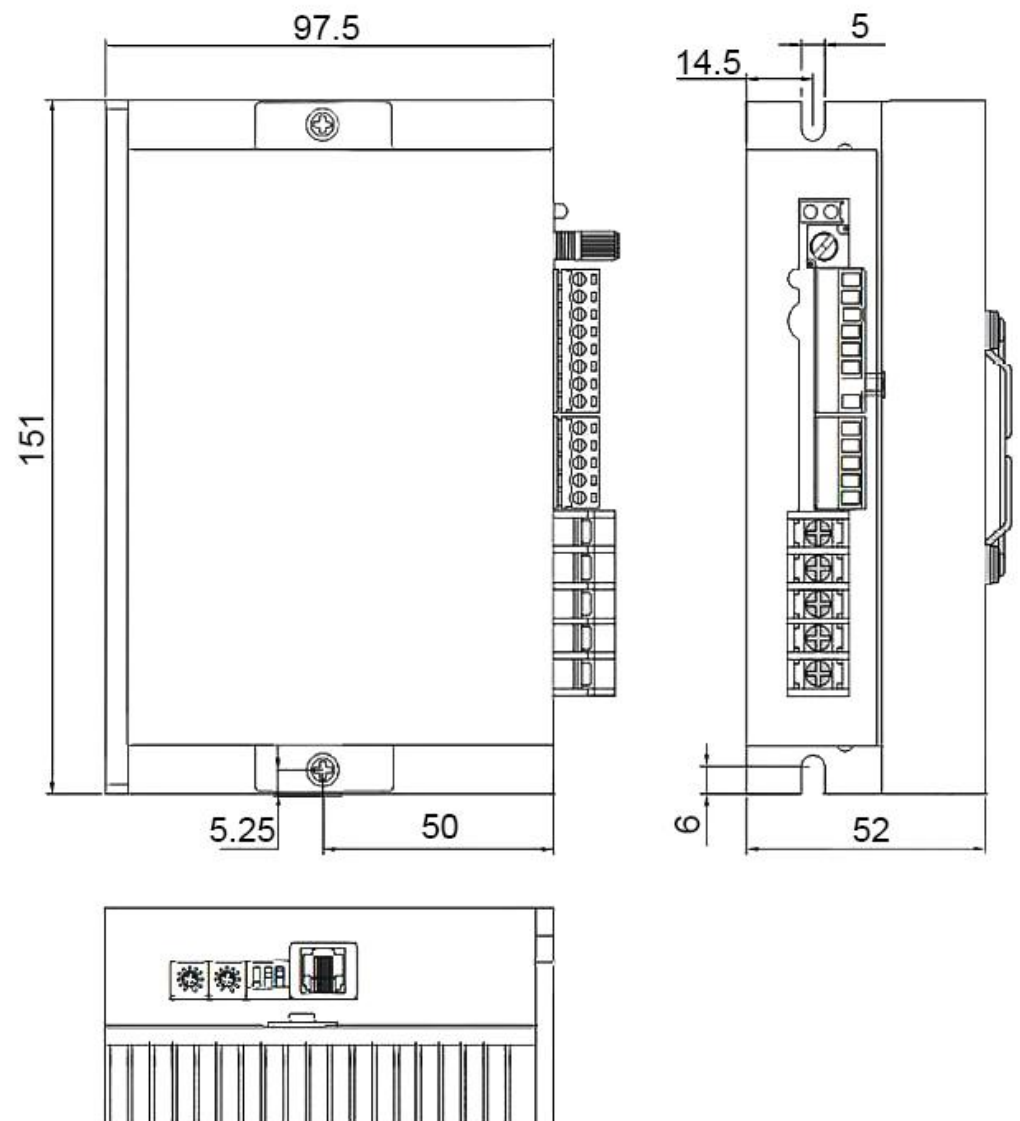
Specification

Model	BLDC-BLD300
Power Supply	18V~56V DC
Typical Power	48V DC
Output Current	15A
Over Voltage Protection	5V
Under Voltage Protection	12mA
External Potentiometer	10KΩ
Input Analog Voltage	5V DC
Speed Control Range	20000rpm

Features

- **Flexible Speed Control:** This BLDC Motor Controller enables precise speed adjustment via external analog or PWM signals, offering smooth acceleration and deceleration settings.
- **Compact and Powerful:** Designed to drive motors up to 120W, the controller's compact size ensures space efficiency without compromising performance.
- **Overcurrent Protection:** Equipped with built-in power protection, the controller features a maximum current setting to safeguard the system from potential overloads.
- **Easy Operation:** Simplifies user interaction with an external potentiometer, making speed adjustments and operation effortless.
- **Versatile Compatibility:** Perfectly compatible with both 24V and 48V BLDC motors, providing reliable performance across a range of applications.

Dimension (Unit: mm)



BLDC-BLD750 18V-52V BLDC Motor Controller



Applicable BLDC Motors

- 100W BLDC Motor - 12V (SKU: BLDC-57-100W)
- 200W BLDC Motor - 24V (SKU: BLDC-86-200W)
- 250W BLDC Motor - 24V/36V/48V (SKU: BLDC-86-250W)
- 300W BLDC Motor - 24V/48V (SKU: BLDC-86-300W)
- 350W BLDC Motor - 24V/36V/48V (SKU: BLDC-86-350W)
- 400W BLDC Motor - 24V/48V (SKU: BLDC-80-400W)
- 600W BLDC Motor - 36V/48V (SKU: BLDC-110-600W)
- 300W BLDC Gear Motor - 24V (SKU: BLDC-GEAR-B300W)
- 450W BLDC Gear Motor - 48V (SKU: BLDC-GEAR-B450W)
- 50W BLDC Worm Gear Motor - 12V (SKU: BLDC-GEAR-W50)
- 300W BLDC Worm Gear Motor - 24V/36V (SKU: BLDC-GEAR-W300)
- 450W BLDC Worm Gear Motor - 36V/48V (SKU: BLDC-GEAR-W450)
- 600W BLDC Worm Gear Motor - 48V (SKU: BLDC-GEAR-W600)
- 300W BLDC Planetary Gear Motor - 24V/36V (SKU: BLDC-GEAR-P300)
- 450W BLDC Planetary Gear Motor - 36V/48V (SKU: BLDC-GEAR-P450)
- 600W BLDC Planetary Gear Motor - 48V (SKU: BLDC-GEAR-P600)

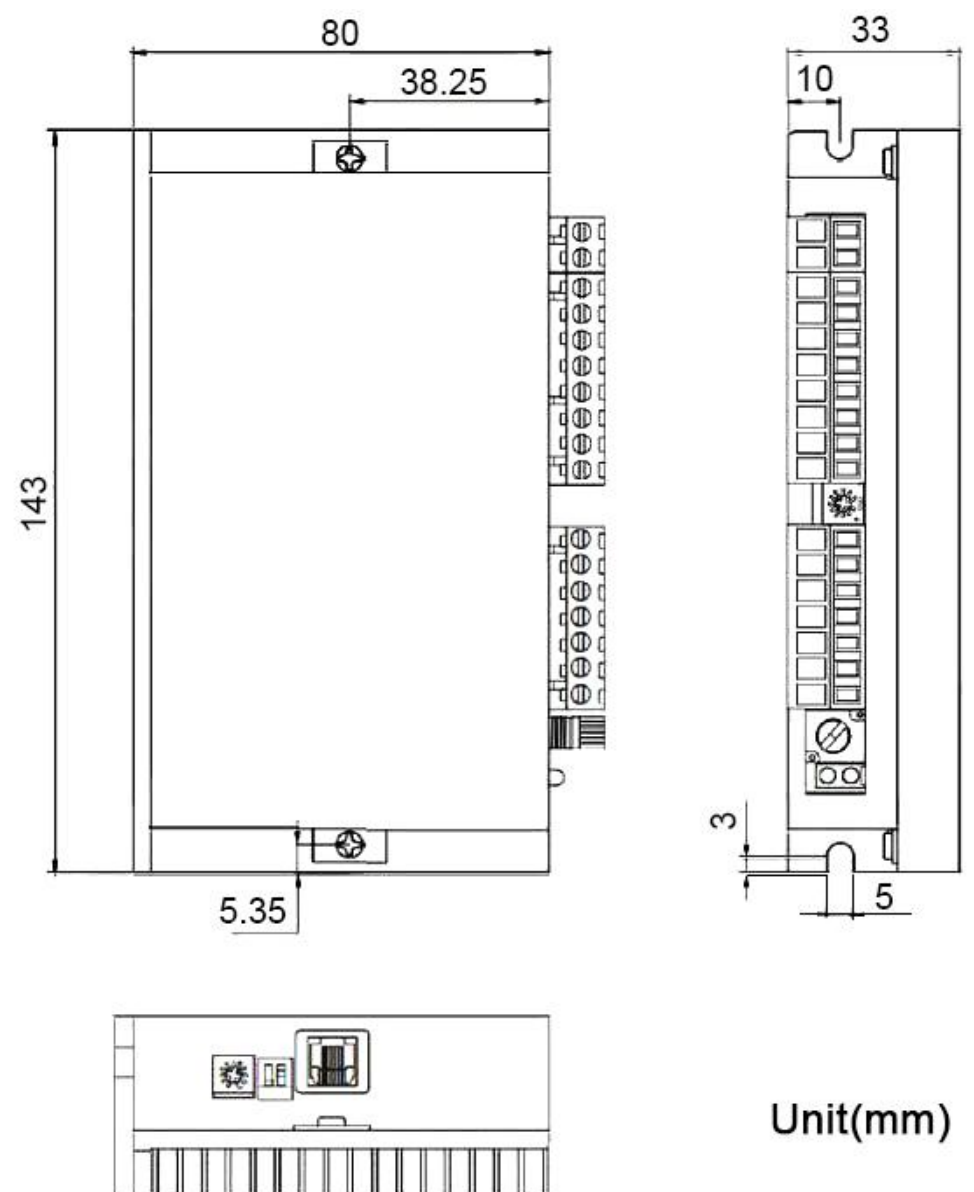
Specification

Model	BLDC-BLD750
Power Supply	18V~52V DC
Typical Power	48V DC
Rated Current	25A
Output Current	25A
Over Voltage Protection	5V
Under Voltage Protection	12mA
External Potentiometer	10KΩ
Input Analog Voltage	5 VDC
Speed Control Range	20000rpm

Features

- **Flexible Speed Control:** This BLDC Motor Controller enables precise speed adjustment via external analog or PWM signals, offering smooth acceleration and deceleration settings.
- **Compact and Powerful:** Designed to drive motors up to 120W, the controller's compact size ensures space efficiency without compromising performance.
- **Overcurrent Protection:** Equipped with built-in power protection, the controller features a maximum current setting to safeguard the system from potential overloads.
- **Easy Operation:** Simplifies user interaction with an external potentiometer, making speed adjustments and operation effortless.
- **Versatile Compatibility:** Perfectly compatible with both 24V and 48V BLDC motors, providing reliable performance across a range of applications.

Dimension (Unit: mm)



Unit(mm)

BLDC-KVD2412N 9V-32V BLDC Motor Controller



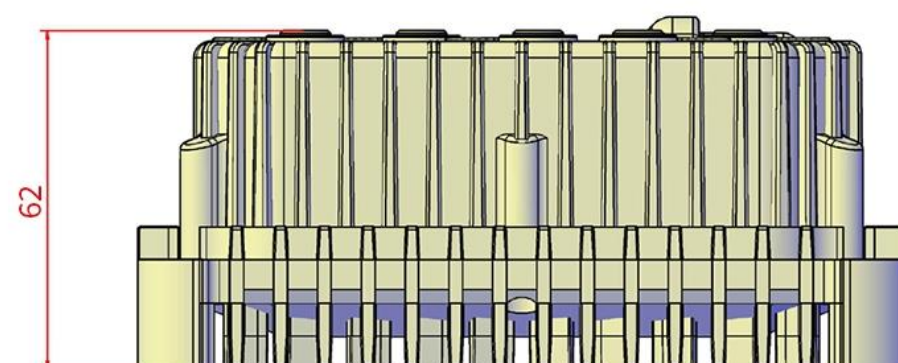
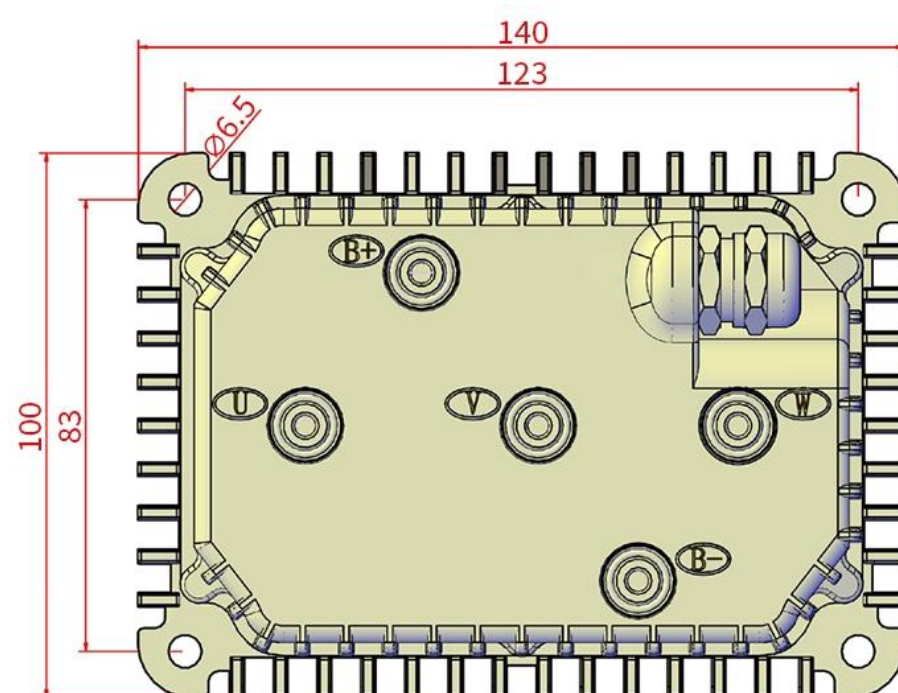
Applicable BLDC Motors

- 150W BLDC Motor - 12V (SKU: BLDC-60-150W)
- 200W BLDC Motor - 12V (SKU: BLDC-86-200W)
- 250W BLDC Motor - 12V (SKU: BLDC-86-250W)
- 300W BLDC Gear Motor - 12V (SKU: BLDC-86-300W)
- 150W BLDC Gear Motor - 12V/24V (SKU: BLDC-GEAR-B150W)
- 200W BLDC Gear Motor - 12V/24V (SKU: BLDC-GEAR-B200W)
- 300W BLDC Gear Motor - 12V (SKU: BLDC-GEAR-B300W)
- 450W BLDC Gear Motor - 12V (SKU: BLDC-GEAR-B450W)
- 150W BLDC Worm Gear Motor - 12V (SKU: BLDC-GEAR-W150)
- 200W BLDC Worm Gear Motor - 12V (SKU: BLDC-GEAR-W200)
- 300W BLDC Worm Gear Motor - 12V (SKU: BLDC-GEAR-W300)
- 450W BLDC Worm Gear Motor - 12V (SKU: BLDC-GEAR-W450)

Specification

Model	BLDC-KVD2412N
Nominal Voltage	12-24V
Max Operating Voltage	9-32V
Peak Current**1 Minute	140A
Continuous Current	60A-100A
Frequency of Operation	16.6KHz
Standby Battery Current	<0.5mA
5V or 12V Sensor Supply Current	40mA
Supply Current	PWR, 30mA Typical
Configurable Battery Voltage Range	B+
Standard Throttle Input	0-5 Volts (3-wire resistive pot), 1-4 Volts (hall active throttle)
Throttle Input	0-5 Volts, can use 3-wire pot to produce 0-5V signal
Full Power Operating Temperature Range	0°C to 70°C (MOSFET temperature)
Operating Temperature Range	-40°C to 100°C (MOSFET temperature)
Max Battery Current	Configurable

Dimension (Unit: mm)



B+,B-,U,V,W:M5 Bolts

BLDC-KBL/BLDC-KEB BLDC Motor Controller



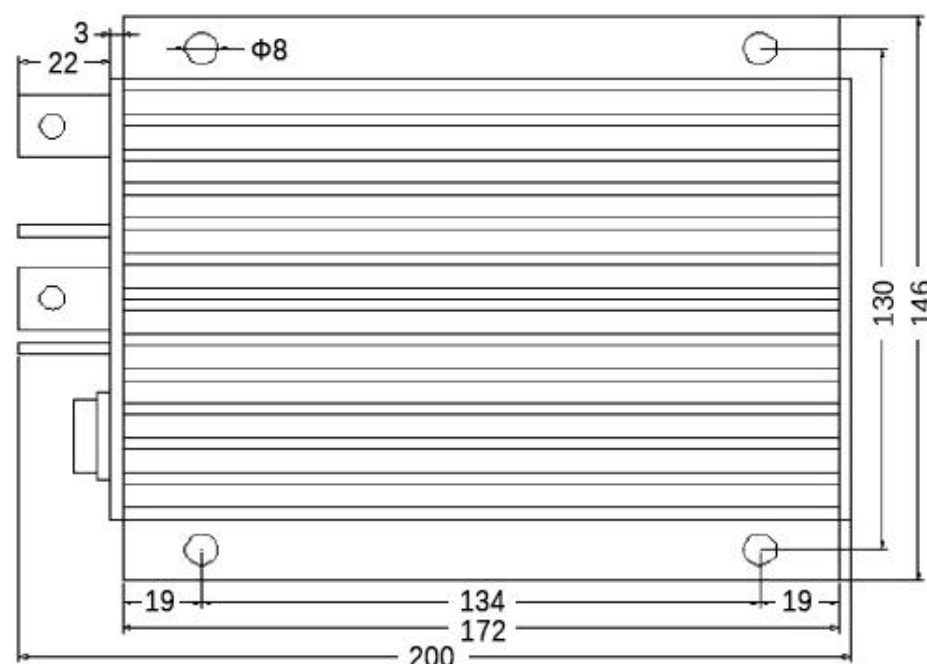
Applicable BLDC Motors

- 1300W BLDC Motor - 24V/48V (SKU: BLDC-110-1300W)
- 1900W BLDC Motor - 24V/96V (SKU: BLDC-110-1900W)
- 2000W BLDC Motor - 24V/48V72V/96V (SKU: BLDC-130-2000W)
- 2300W BLDC Motor - 24V/72V/96V (SKU: BLDC-130-2300W)
- 2500W BLDC Motor - 48V/72V/96V (SKU: BLDC-180-2500W)
- 3000W BLDC Motor - 48V/72V/96V (SKU: BLDC-130-3000W)
- 3800W BLDC Motor - 48V/72V/96V (SKU: BLDC-180-3800W)
- 5000W BLDC Motor - 48V/72V/96V (SKU: BLDC-180-5000W)

Specification

Model	BLDC-KBL/BLDC-KEB
Frequency of Operation	16.6kHz
Standby Current	<0.5mA
5V Sensor Supply Current	40mA
Controller supply voltage range	PWR, 18V to 120V
Supply Current	PWR, 150mA
Controller Rated Current	1.5-2 times the rated current of the motor
With CAN bus function (Optional)	Yes, the controller supports CAN function, which provides communication based on CAN 2.0B extended frame and SAE J1939 protocol standard for vehicles. It can be used in vehicles, ships, AGVs and other equipment to exchange data with ECU and get speed and RPM feedback via CAN bus. CAN bus communication rate: 250K Download CAN Protocol
Analog Brake and Throttle Input	0-5 Volts. Producing 0-5V signal with 3-wire pot
Full Power Operating Temperature Range	0°C to 50°C
Operating Temperature Range	-30°C to 90°C
Protection Grade	IP65
Peak Phase Current, 10 seconds	50-120A (according to the model)
Continuous Phase Current Limit	5-50A (according to the model)
Maximum Battery Current	Configurable
Size	200*146*62mm
Weight	For 400W to 750W motor: 2 kg For 1kW to 3kW motor: 2.5-4 kg For 4kW to 6kW motor: 5-7 kg For 7kW to 9kW motor: 8-10 kg For 10kW to 12W motor: 11-13 kg For 13kW to 15kW motor: 14-17 kg

Dimension (Unit: mm)



Basic Functions

- Fault detection and protection. It can identify faults via LED twinkling code.
- Battery voltage real-time monitoring. It will stop work when battery voltage is too high or too low.
- Built in current detection and over current protection.
- The controller is equipped with temperature measurement and protection functions. At low and high temperatures, the current is cut to protect the controller and the battery.
- Support 5V sensor power supply.
- 3 switch inputs. Connect to GND for valid signal. The default is the pedal safety switch input (to be configured via the customer software), the brake switch input and the reversing switch input. The Boost switch can be configured.
- The controller will output the maximum current, when the switch is turned on.
- The Economy switch can be configured. Limiting the maximum drive current to the controller is half the normal case, when the switch is turned on.
- 12V brake signal input can be configured.
- 3-phase Hall position sensor input, open collector output and the controller provides pull-up resistor.

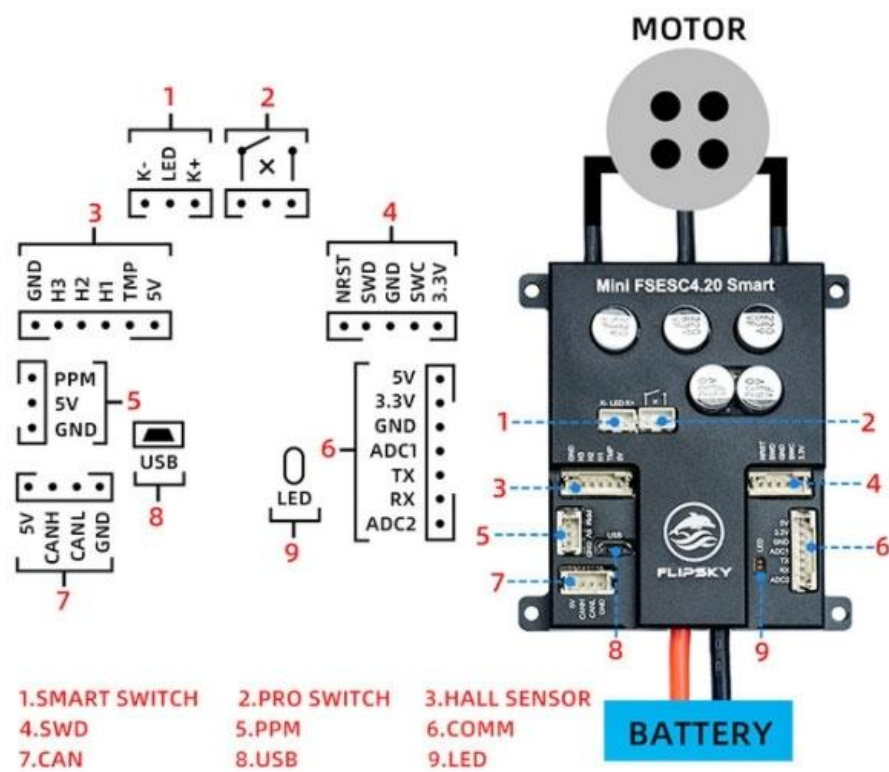
BLDC-ESC-503 50A 3-12S Electronic Speed Controller



Specification

Model	BLDC-ESC-S50A
Voltage	8V-60V (3-12S)
Firmware	Latest firmware version
Power Current	50A continuous/200A peak
Signal	PWM input
Communication Port	USB, CAN, UART
Control Modes	BLDC, FOC
Switch Off	Fireproof flower/intelligent version of fireproof flower switch
Input Source	PPM, analog, NRF, NYKO, KAMA, NUNCHUCK
Support Sensor	ABI, HALL, AS 5047, AS5048A
Size	83x62x22.5mm

Wiring Diagram



Applications



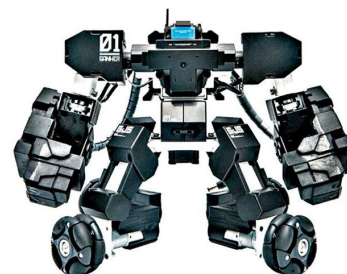
Battle Robot



DIY off Road Vehicle



Mechanical Arm



Robot

BLDC-ESC-603 60A 3-12S Electronic Speed Controller



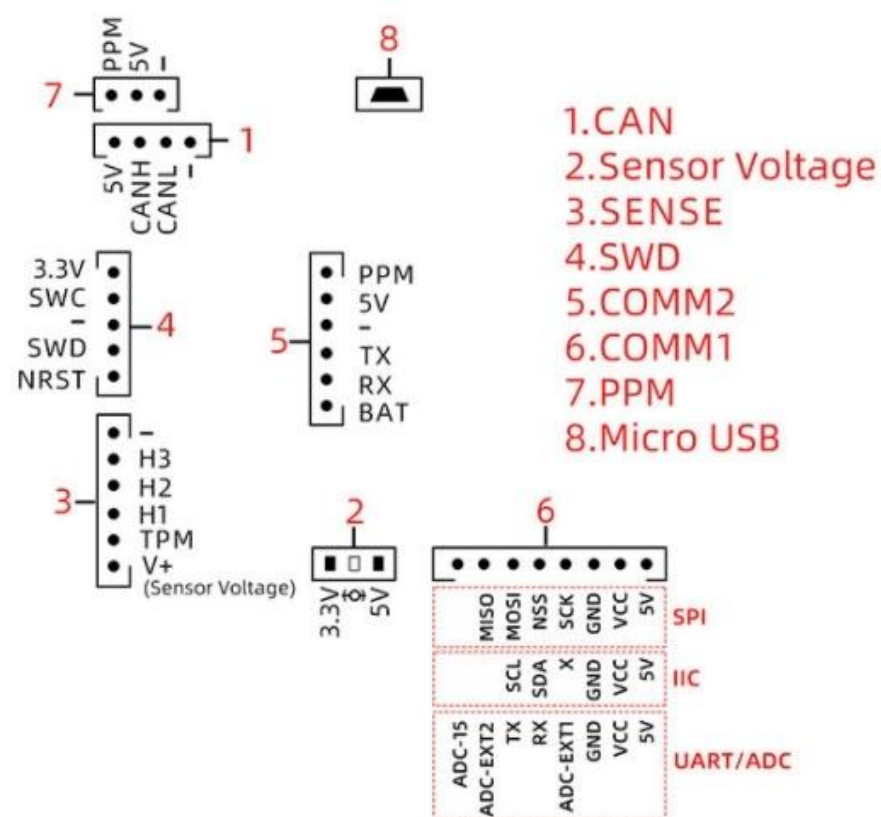
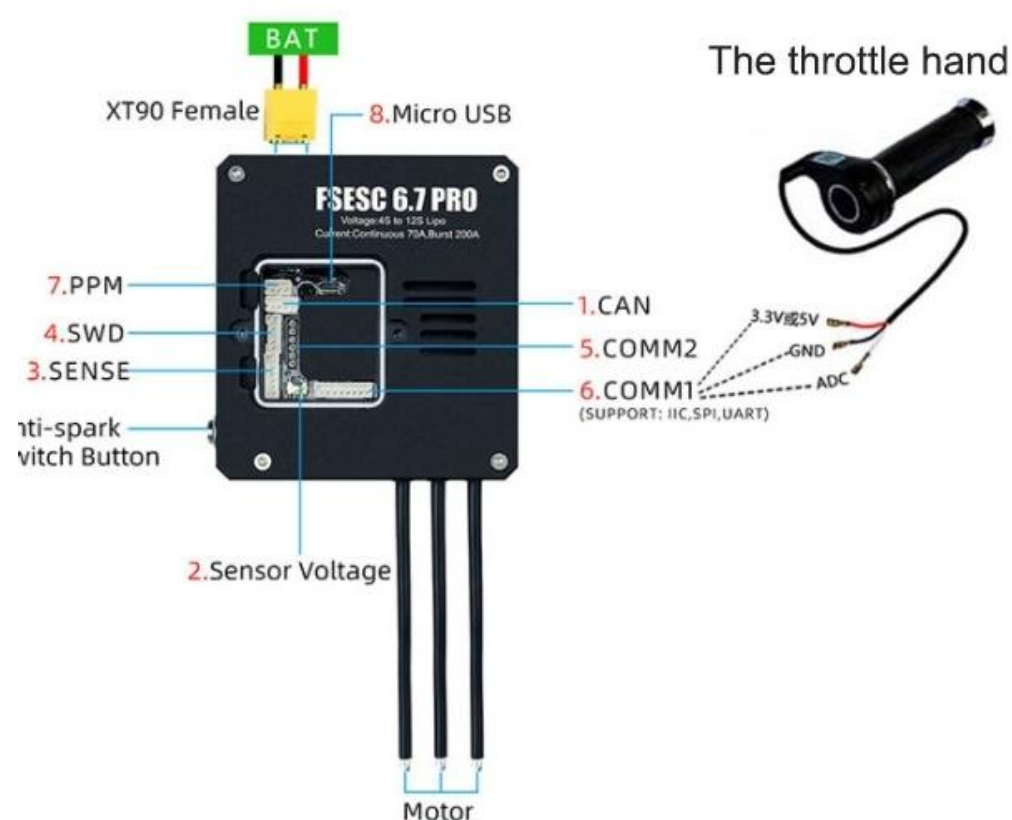
Specification

Model	BLDC-ESC-S60A
Voltage	8V-60V (3-12S)
Power Current	60A continuous/200A peak
Signal	PWM input
Communication Port	USB, CAN, UART
Control Modes	BLDC, FOC, DC
PCB	6F 18 OC
Hardware	V6.7PRO
Support Sensor	ABI, HALL, AS 5047
Input Source	PPM, analog, NRF, NYKO, KAMA, NUNCHUCK
Size	100x92x22.5mm

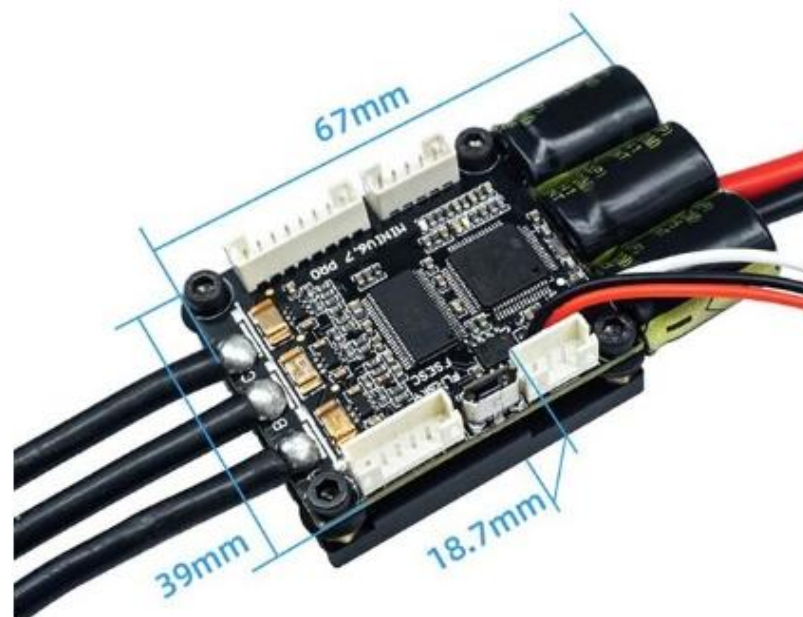
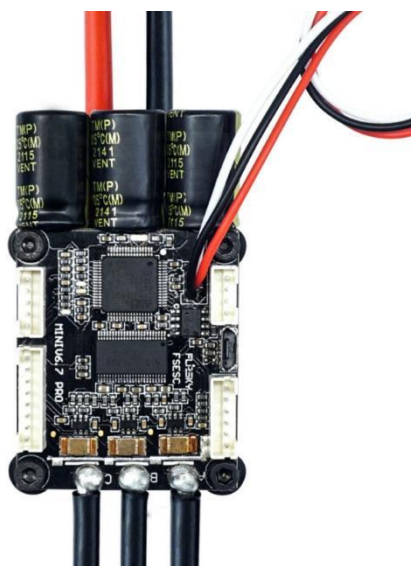
Applications

- Battle Robot
- DIY off Road Vehicle
- Mechanical Arm
- Robot

Wiring Diagram



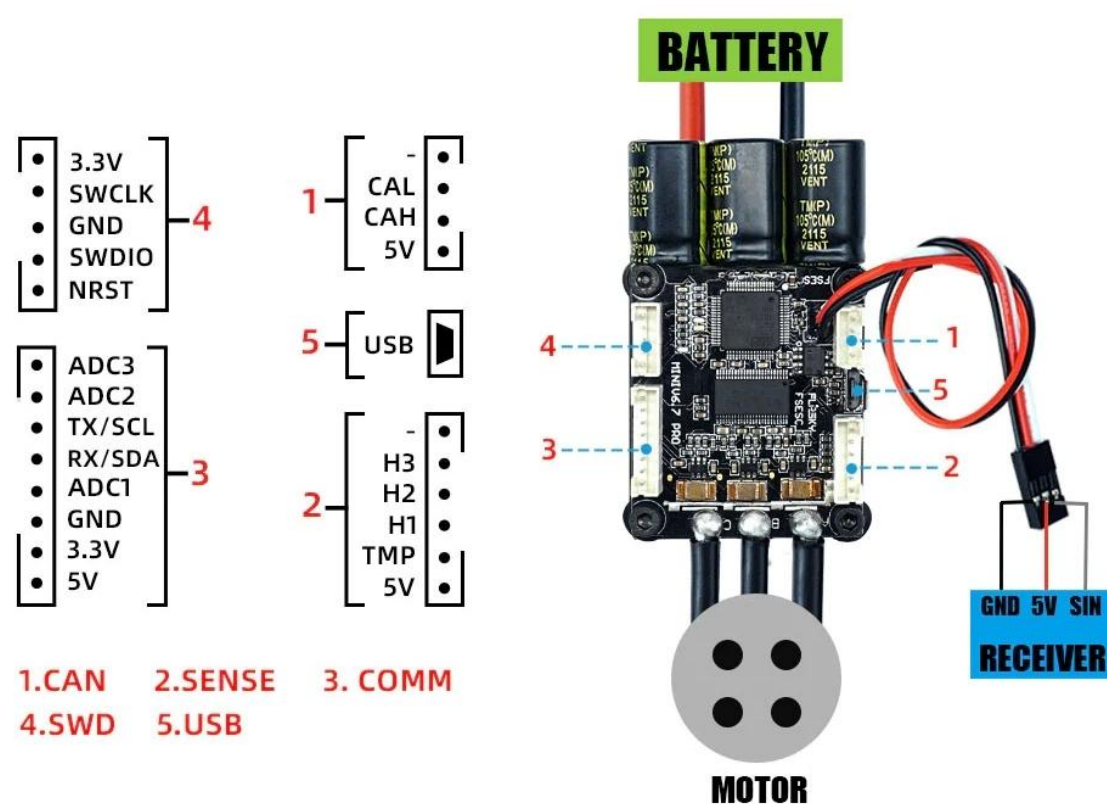
BLDC-ESC-704 70A 4-12S Electronic Speed Controller



Specification

Model	BLDC-VH-M67PS-N-070
Voltage	14V-60V (Cells: 4-13S, safe for 4S to 12S, voltage spikes may not exceed 60V)
Continuous Current	70A
Instantaneous Current	200A
EPRM	150000
Motor Cable	12 AWG
Power Cable	12 AWG
Regenerative Capacity	Yes
Programmable	Yes
Communication Method	PPM, ADC, NRF, UART
Communication Ports	USB, CAN, UART, SPI, IC
Supported Sensors	ABI, HALL, AS5047, AS5048A
Control Mode	Current, duty cycle, speed and position control modes are supported.
Size	67 mm*39 mm*18.7mm
Weight	130g

Wiring Diagram



Applications



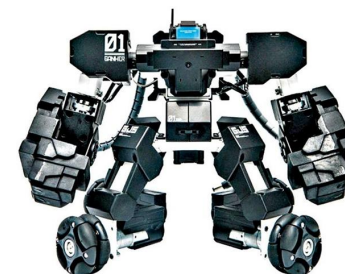
Battle Robot



DIY off Road Vehicle



Mechanical Arm



Robot

BLDC-ESC-1004 100A 4-12S Electronic Speed Controller



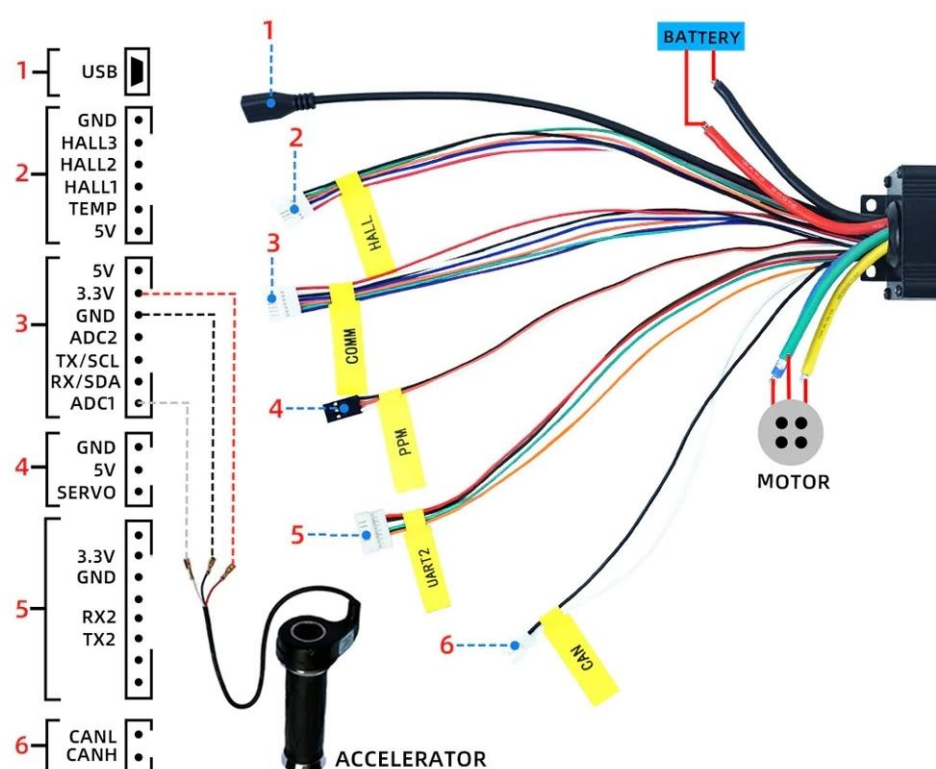
Specification

Model	BLDC-VC-75S-N-100
Voltage	14V-84V (4-20S)
BEC	5V@1A
Continuous Current	100A
Instantaneous Current	120A
EPRM	150000
Wire Size	12 AWG
Regenerative Capacity	Yes
Programmable	Yes
Communication Method	PPM, ADC, NRF, UART
Communication Ports	USB, CAN, UART
Supported Sensors	ABI, HALL, AS5047, AS5048A
Size	85 mm*50.7 mm*33.8mm
Weight	0.5kg

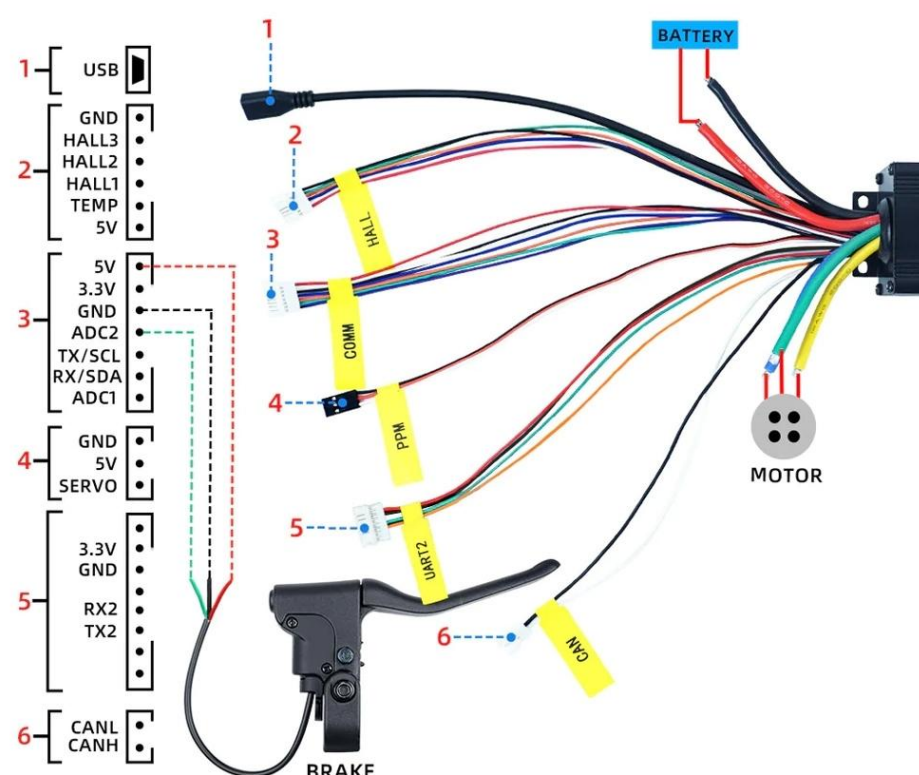
Features

- The 100A ESC controller features dual COMM ports, integrated IMU, UART Bluetooth module, and support for either a screen display or remote controller.
- Built on the VESC platform, it is fully programmable via VESC Tool and includes built-in protections against overheating and overcurrent.

Wiring Diagram

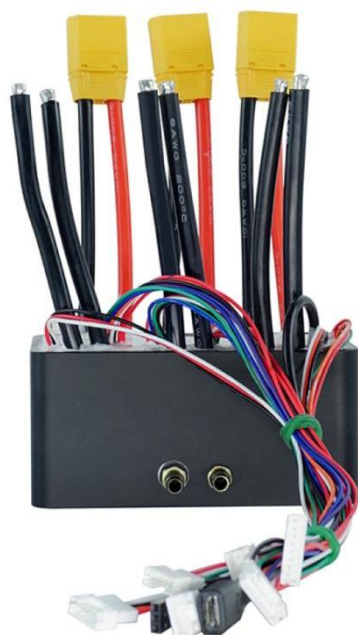


1. USB 2.HALL 3.COMM 4.PPM 5.UART2 6.CAN



1. USB 2.HALL 3.COMM 4.PPM 5.UART2 6.CAN

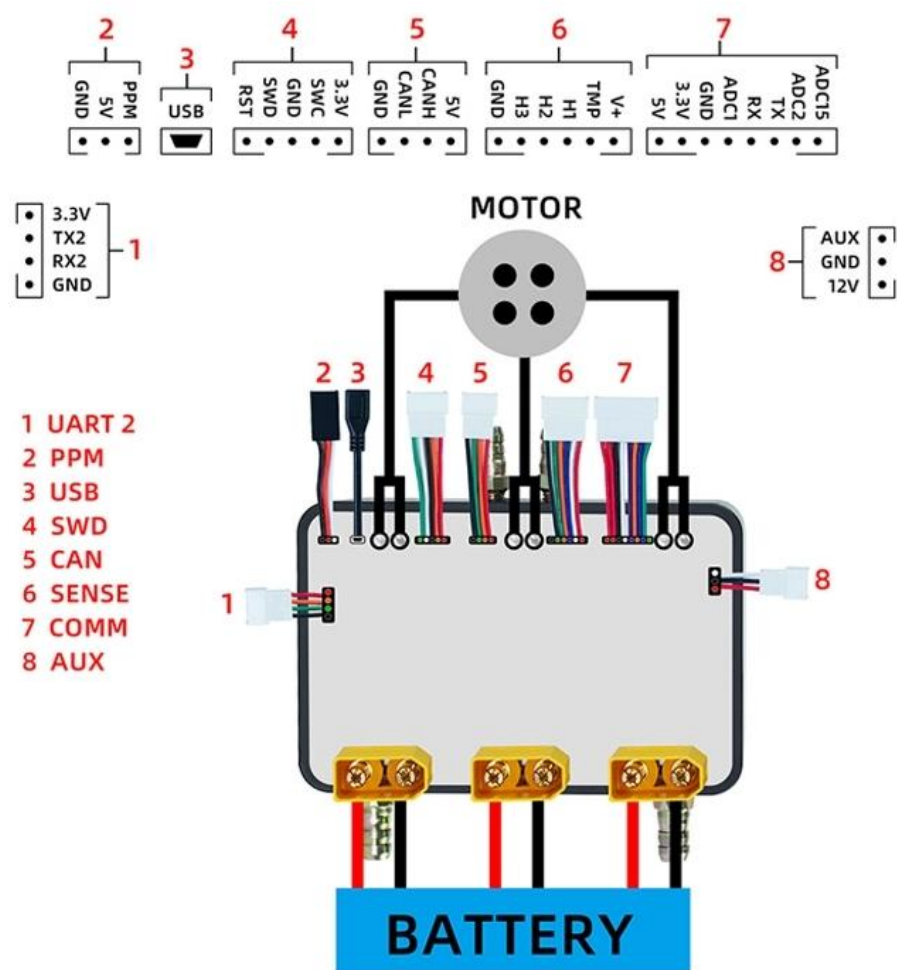
BLDC-ESC-200A 200A 3-16S Electronic Speed Controller



Specification

Model	BLDC-ESC-200A
Voltage	14-75V (4-20S safe, voltage spikes must not exceed 84V)
Continuous Current	200A
Supported Sensors	ABI, HALL, AS5047, AS5048A
EPRM	150000
Communication Ports	USB, CAN, UART
Motor Cable	8 AWG
Power Cable	10 AWG
Adjustable Protection Measures	Low input voltage/high input voltage/high motor current/high input current

Wiring Diagram



Applications



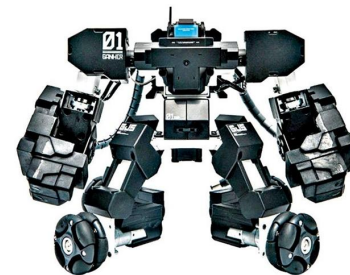
Battle Robot



DIY off Road Vehicle

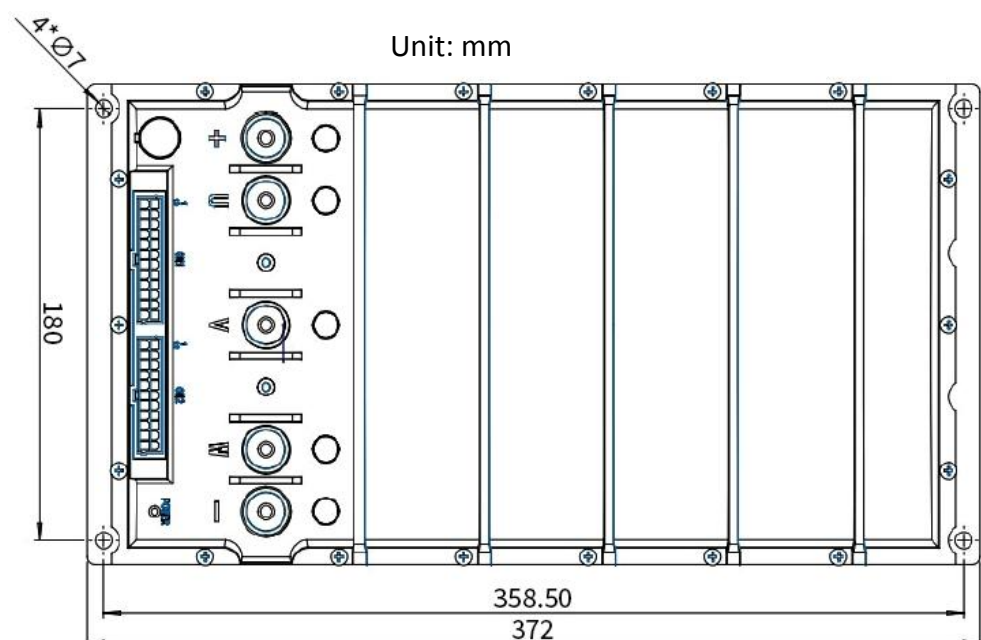


Mechanical Arm



Robot

BLDC-EVC-3 3kW BLDC Motor Controller



Specification

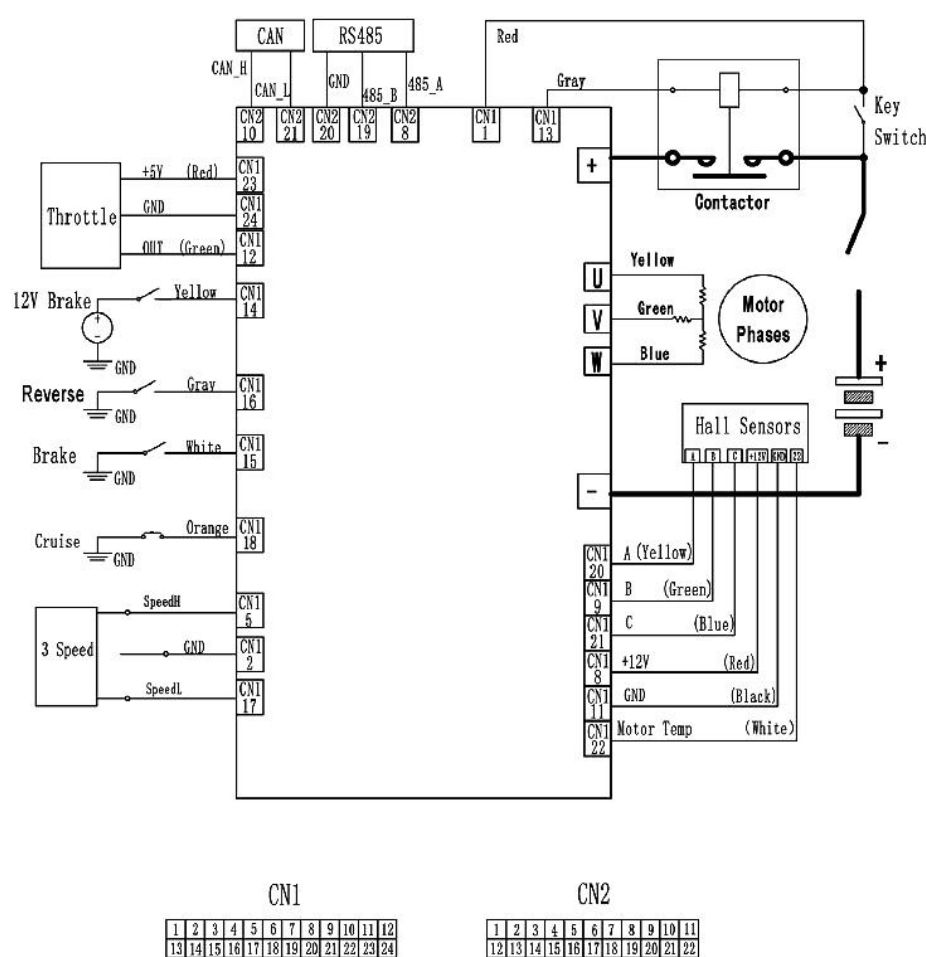
Model	BLDC-EZ-A48400
Rated Voltage	48V
Rated Power	3kW
Max Voltage	75V
Max Phase Current	400A
Rated Phase Current	160A
Max Bus Current	200A
Weight	3.2kg

Features

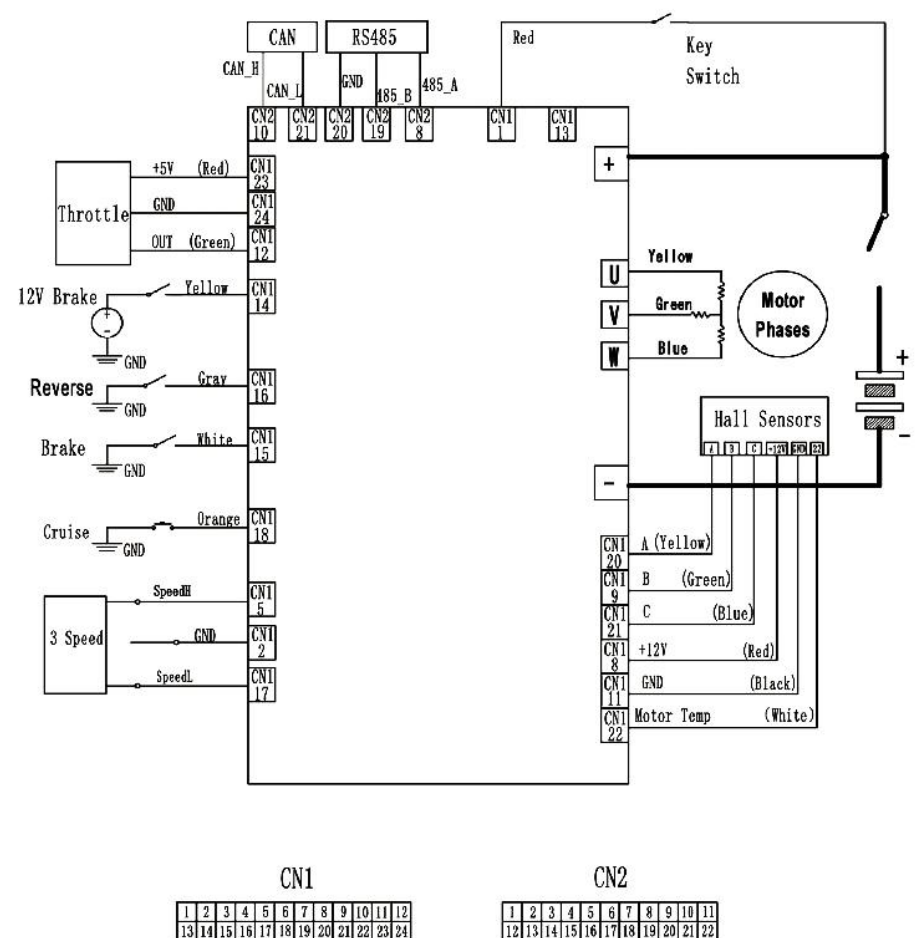
- 3 kW BLDC electric car motor controller has built-in Bluetooth, which can monitor the status of the controller in real-time with the host software.
- 48V motor controller supports communication protocols: CAN-BUS, RS485, UART, etc.
- Electric car motor controller has the support of automatic motor matching.
- Electric car motor controller is compatible with various motor sensors: Hall, photoelectric encoder, magnetic encoder, etc.
- Precise bus current control to protect controller battery life from over-discharge.
- Motor controller torque, speed, and power can be set individually.
- Integrated DC contactor control circuits, and other modes are also available.

Wiring Diagram

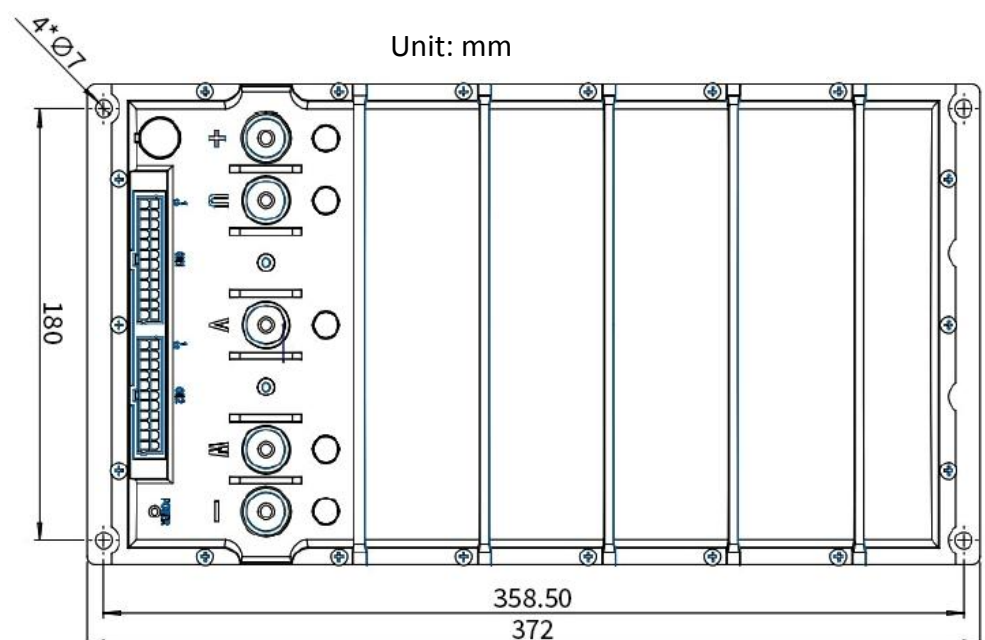
With DC Contactor



Without DC Contactor



BLDC-EVC-5 5kW BLDC Motor Controller



Specification

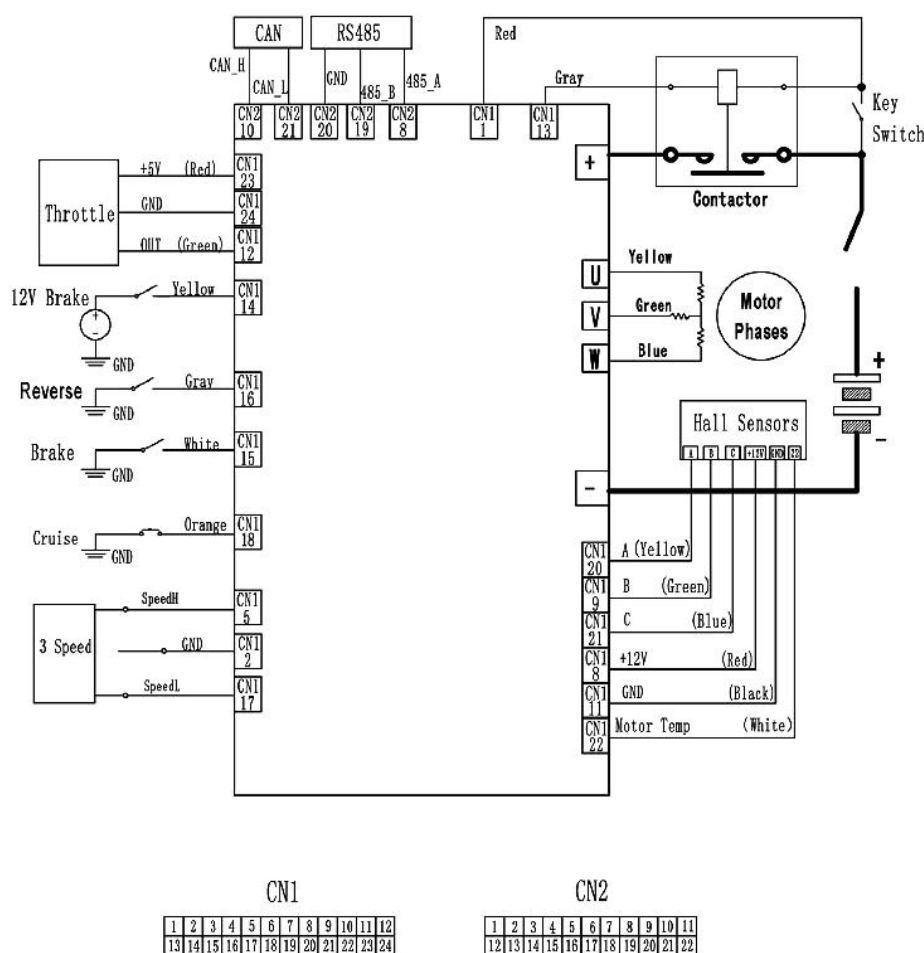
Model	BLDC-EZ-A48500	BLDC-EZ-A96400
Rated Voltage	48V	96V
Rated Power	5kW	5kW
Max Voltage	75V	130V
Max Phase Current	500A	400A
Rated Phase Current	200A	160A
Max Bus Current	250A	200A
Weight	3.5kg	2.8kg

Features

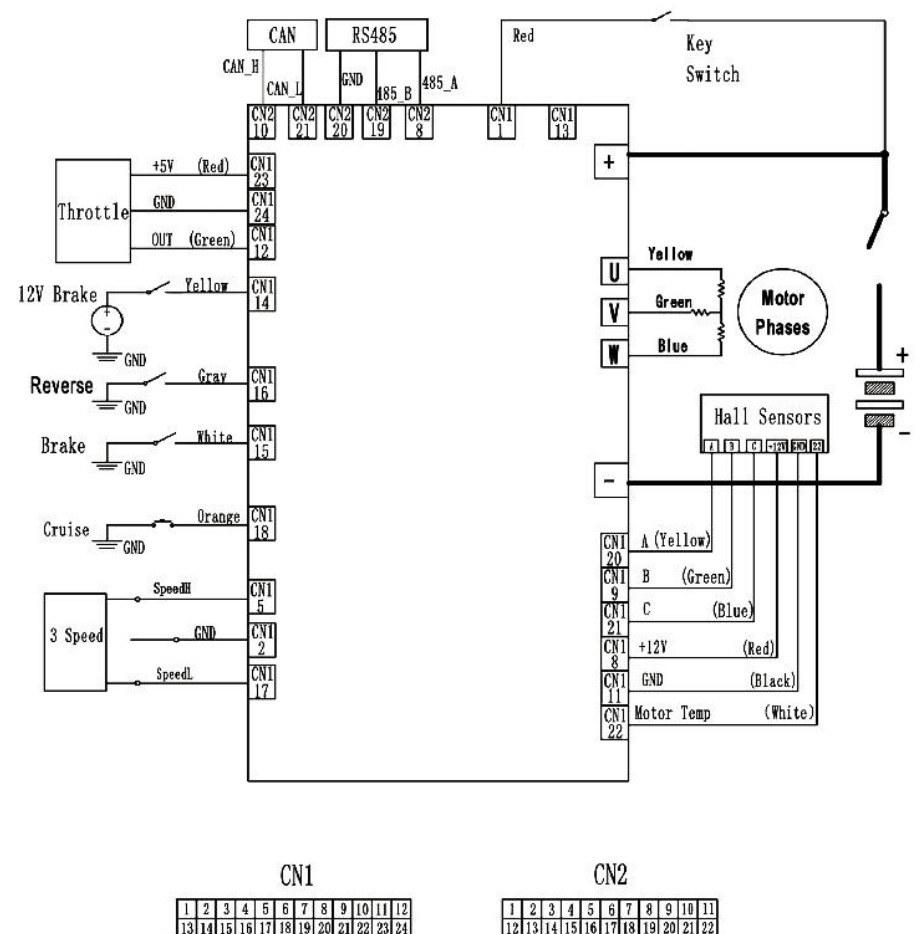
- 20 kW BLDC electric car motor controller has built-in Bluetooth, which can monitor the status of the controller in real-time with the host software.
- 72V and 96V motor controllers support communication protocols: CAN-BUS, RS485, UART, etc.
- Electric car motor controller has the support of automatic motor matching.
- Electric car motor controller is compatible with various motor sensors: Hall, photoelectric encoder, magnetic encoder, etc.
- Precise bus current control to protect controller battery life from over-discharge.
- Motor controller torque, speed, and power can be set individually.
- Integrated DC contactor control circuits, and other modes are also available.

Wiring Diagram

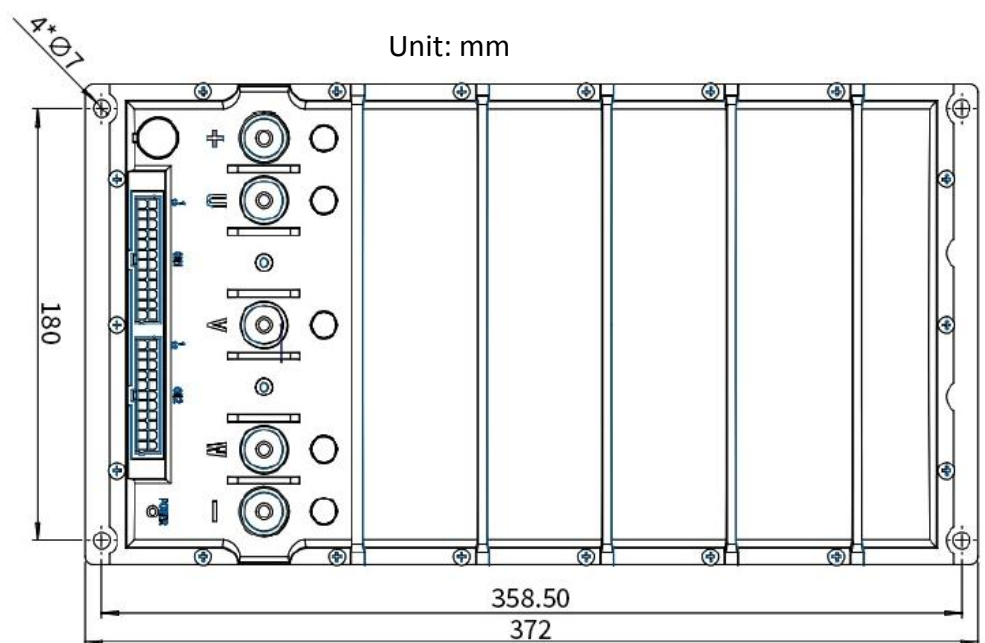
With DC Contactor



Without DC Contactor



BLDC-EVC-10 10kW BLDC Motor Controller



Specification

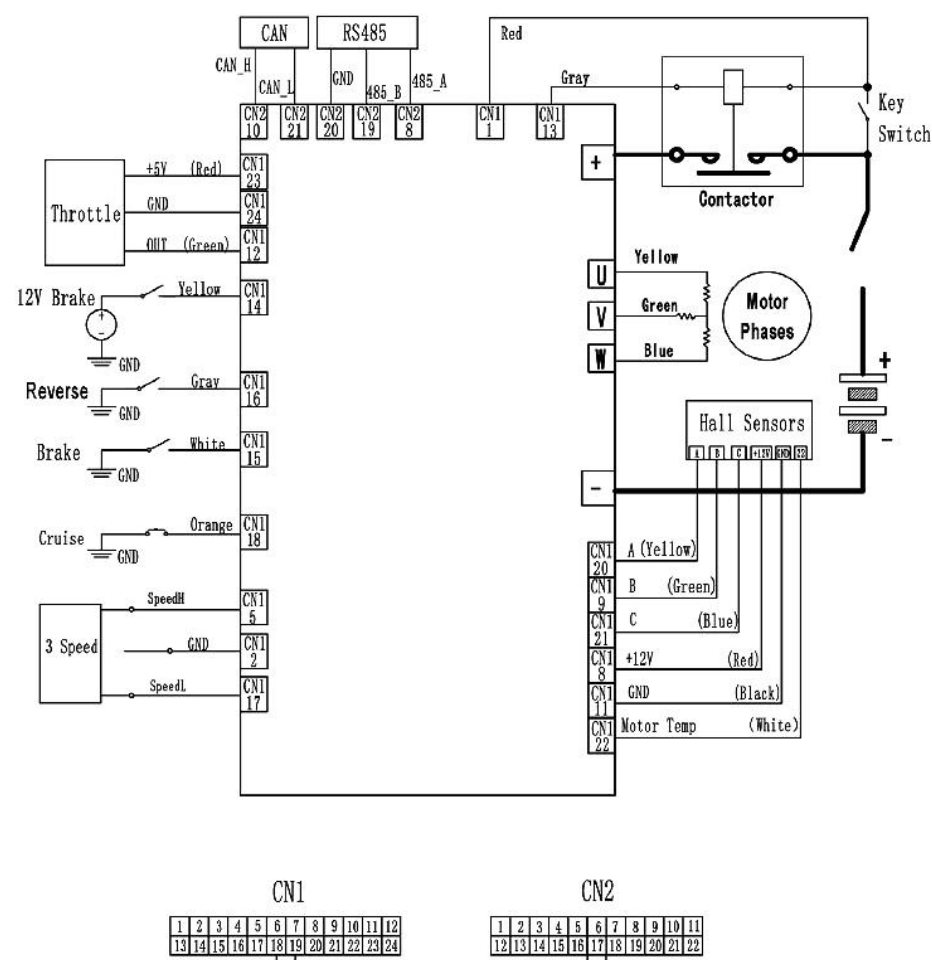
Model	BLDC-EZ-B481000	BLDC-EZ-B72800
Rated Voltage	48V	72V
Rated Power	10kW	10kW
Max Voltage	75V	95V
Max Phase Current	1000A	800A
Rated Phase Current	400A	320A
Max Bus Current	500A	300A
Weight	4.2kg	3.5kg

Features

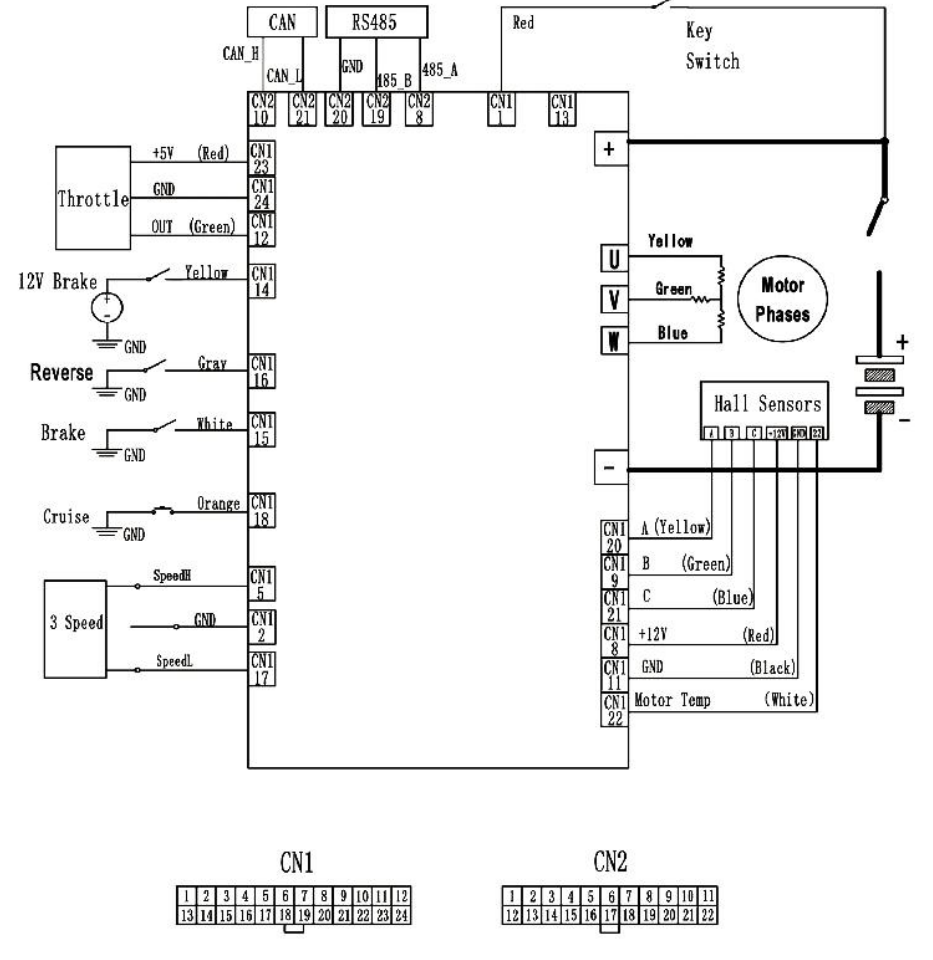
- 20 kW BLDC electric car motor controller has built-in Bluetooth, which can monitor the status of the controller in real-time with the host software.
- 72V and 96V motor controllers support communication protocols: CAN-BUS, RS485, UART, etc.
- Electric car motor controller has the support of automatic motor matching.
- Electric car motor controller is compatible with various motor sensors: Hall, photoelectric encoder, magnetic encoder, etc.
- Precise bus current control to protect controller battery life from over-discharge.
- Motor controller torque, speed, and power can be set individually.
- Integrated DC contactor control circuits, and other modes are also available.

Wiring Diagram

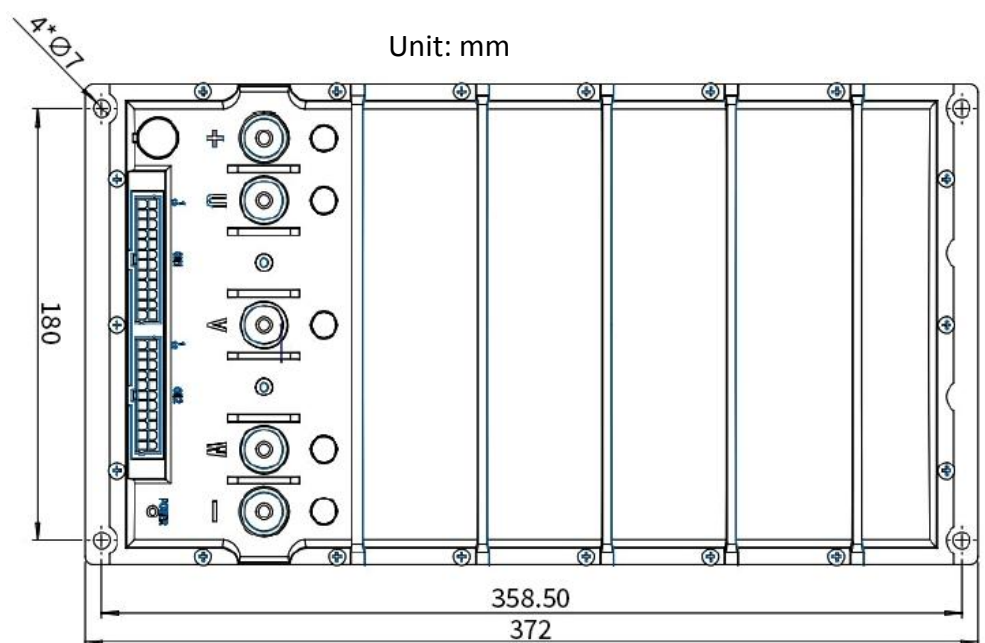
With DC Contactor



Without DC Contactor



BLDC-EVC-20 20kW BLDC Motor Controller



Specification

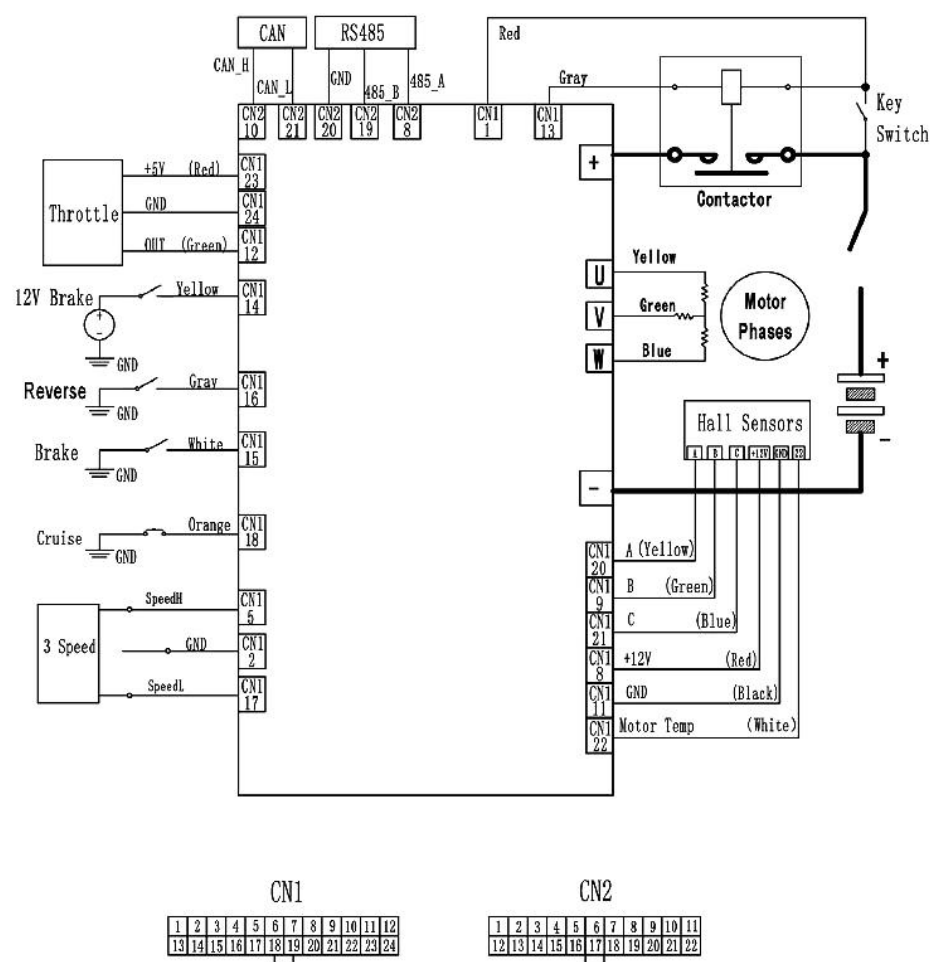
Model	BLDC-EZ-C721200	BLDC-EZ-C96900
Rated Voltage	72V	96V
Rated Power	20kW	20kW
Max Voltage	95V	120V
Max Phase Current	1200A	900A
Rated Phase Current	480A	360A
Max Bus Current	600A	450A
Weight	4.9kg	4.9kg

Features

- 20 kW BLDC electric car motor controller has built-in Bluetooth, which can monitor the status of the controller in real-time with the host software.
- 72V and 96V motor controllers support communication protocols: CAN-BUS, RS485, UART, etc.
- Electric car motor controller has the support of automatic motor matching.
- Electric car motor controller is compatible with various motor sensors: Hall, photoelectric encoder, magnetic encoder, etc.
- Precise bus current control to protect controller battery life from over-discharge.
- Motor controller torque, speed, and power can be set individually.
- Integrated DC contactor control circuits, and other modes are also available.

Wiring Diagram

With DC Contactor



Without DC Contactor

