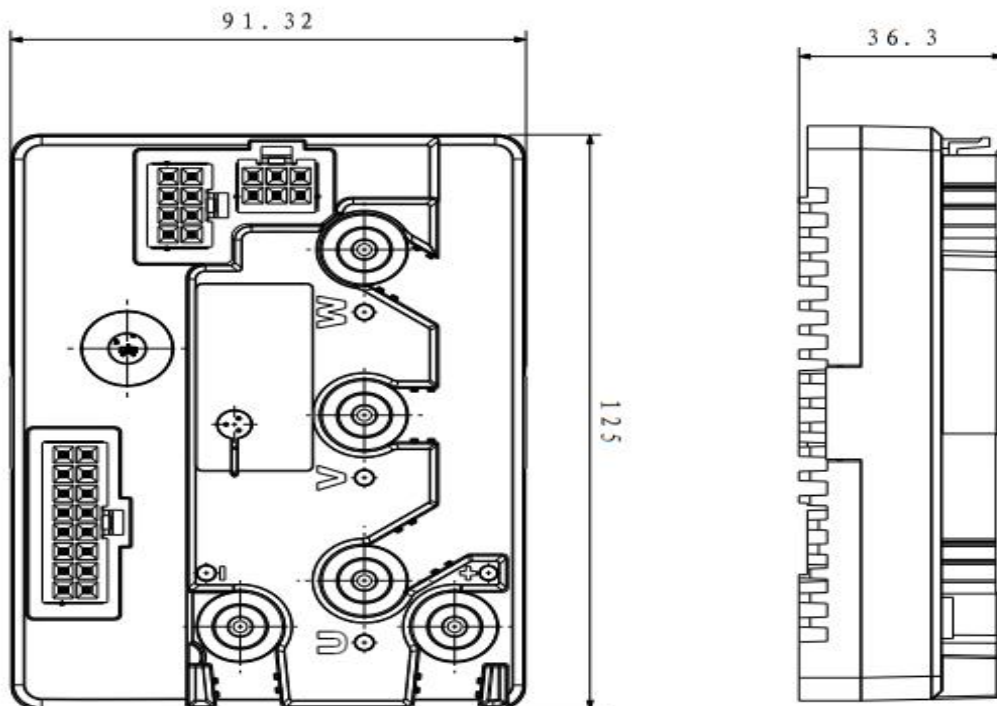




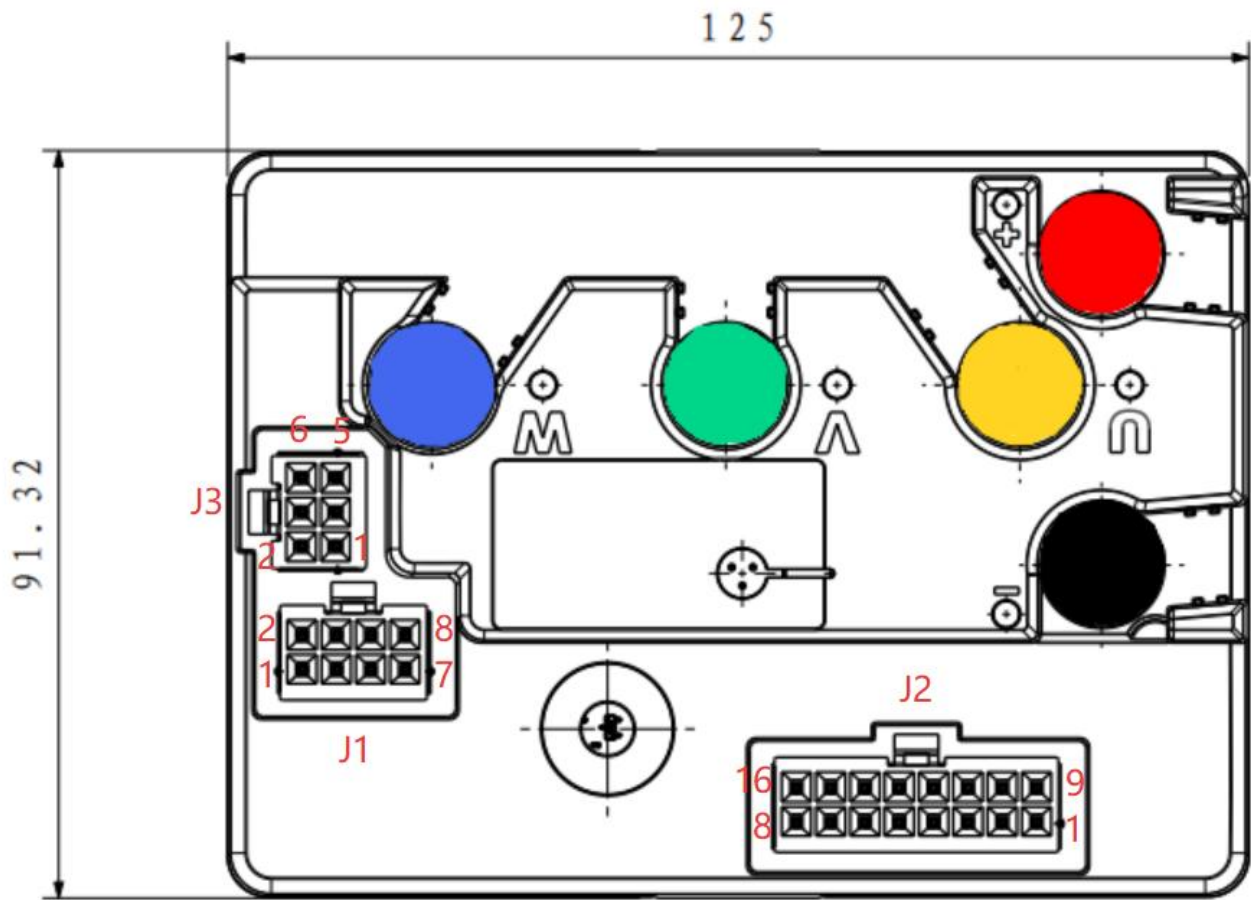
- IP66
- Input Voltage 36~88V
- Non-Isolated Type

■ Dimensions & Installation Instructions



Terminal screws: M5×8 (tightening torque 2.5~4 N • m)

■ Wiring Definitions



Connector Model: ZT2247-B/6+16+8 (30pin) / 5557 socket

8PIN (J1) 5557				6PIN (J3) 5557			
1 IO6	2 IO7	3 Motor Temp	4 AGND	1 Hall C	2 HALL+/Hall Power	3 Hall B	
5 ADIN1	6 AGND	7 ADIN2	8 HALL+/H all Power	4 Motor Temp	5 Hall A	6 Hall GND	
16PIN (J2) 5557							
1 VS	2 KEY	3 CANH	4 CANL	5 AGND	6 IO8	7 IO5	8 ADIN3
9 IO12 / LSD (optional)	10 IO11 / LSD (optional)	11 IO10 / LSD (optional)	12 IO9 / LSD (optional)	13 AGND	14 Throttle+ 5V	15 IO2	16 IO1

Notes:

- 1. The function IO can be used as P gear, gear position, reverse gear, etc. IO2 is active-low.
- 2. The lamp control port is a low-side driver, with continuous current capability of 0.5A and momentary current of 1A (3S) optional.

■ **Technical Specifications**

Model	DEMxCB06xx
Rated Input Voltage (DC-V)	36~72
Rated Input Current (DC-A)	15
Rated Output Current (AC-A@30min)	20
Input Voltage Range (DC-V)	36~88
Maximum Input Current (DC-A)	40
Maximum Output Current (AC-A)	130
Operating Ambient Temperature (°C)	-20~+65
Motor Type	PMSM / SynRM / Induction Motor
Motor Control Method	FOC/MTPA/SVPWM/Flux Weakening
Motor Sensor Type	ABZ / HALL ABC (select one)
Efficiency	97%
Protection	OverCurrent / OverVoltage / OverTemperature / Stall
Dimensions (mm)	125*91*36
Weight (kg)	<1.2
Communication	CAN2.0 / 1-Wire
Cooling Method	Forced Air Cooling
Protection Rating	IP66

■ Pin Descriptions

Pin	Name	Type	Operating Range	Description
J1-1	IO6	Digital Input	Withstand voltage 8V	IO function configurable
J1-2	IO7	Digital Input	Withstand voltage 8V	IO function configurable
J1-3	Motor Temp	Analog Input	Resistive load only	Motor temperature port
J1-4	AGND	Ground	Current capability 2A	GND
J1-5	ADIN1	Analog Input	Withstand voltage 40V AD sampling range 0~5V	AD function configurable
J1-6	AGND	Ground	Current capability 2A	GND
J1-7	ADIN2	Analog Input	Withstand voltage 40V AD sampling range 0~5V	AD function configurable
J1-8	HALL+/Hall Power	Power Output	4.5~5V 0.1A	5V
J2-1	VS	Output	Connected to phase wire	Wheel rotation signal
J2-2	KEY	Power Wake-up Input	30~88V, consumption <0.01A	Key switch / key power
J2-3	CANH	Communication	Withstand voltage 40V	Voltage difference between CANH and CANL < 5.5V
J2-4	CANL	Communication	Withstand voltage 40V	
J2-5	AGND	Ground	Current capability 2A	Connected to terminal -
J2-6	IO8	Digital Input	Withstand voltage 20V	IO function configurable
J2-7	IO5	Digital Input	Withstand voltage 20V	IO function configurable
J2-8	ADIN3	Analog Input	Withstand voltage 40V AD sampling range 0~5V	AD function configurable
J2-9	IO12	Digital Input	Withstand voltage 10V	Active low <0.3V, active high >3V or open IO function configurable
	LSD	Output	72V 0.5A	Low-side driver for lamp control
J2-10	LSD	Output	72V 0.5A	Low-side driver for lamp control
	IO11	Digital Input	Withstand voltage 20V	Active low <0.3V, active high >3V or open IO function configurable
J2-11	IO10	Digital Input	Withstand voltage 10V	Active low <0.3V, active high >3V or open IO function configurable
	LSD	Output	72V 0.5A	Low-side driver for lamp control
J2-12	IO9	Digital Input	Withstand voltage 20V	Active low <0.3V, active high >3V or open, IO function configurable
	LSD	Output	72V 0.5A	Low-side driver for lamp control
J2-13	AGND	Ground	Current capability 2A	Connected to terminal -
J2-14	Throttle+ 5V	Power Output	4.3~4.7V 0.05A	Throttle+/accelerator 5V (ACC+)
J2-15	IO2	Digital Input	Withstand voltage 10V	IO function configurable
J2-16	IO1	Digital Input	Withstand voltage 8V	IO function configurable

J3-1	Hall C	Signal Input	5V	Hall C/Z
J3-2	HALL+/Hall Power	Power Output	4.5~5V 0.1A	5V
J3-3	Hall B	Signal Input	5V	Hall B
J3-4	Motor Temp	Analog Input	Resistive load only	Motor temperature port
J3-5	Hall A	Signal Input	5V	Hall A
J3-6	Hall GND	Ground	Current capability 2A	Encoder GND

■ Product Features

- High-power MOSFETs with high current rating, low internal resistance and fast switching speed are used as the power devices.
- An advanced vector control algorithm provides precise control of motor torque and speed.
- Energy regenerative control extends vehicle driving range and meets the needs of different customers.
- Software can be customized to meet the different requirements of individual customers.

■ Important Notes

- Always tighten the terminal screws to the required torque.
- The vehicle must be equipped with reliable short-circuit protection such as circuit breakers and fuses.