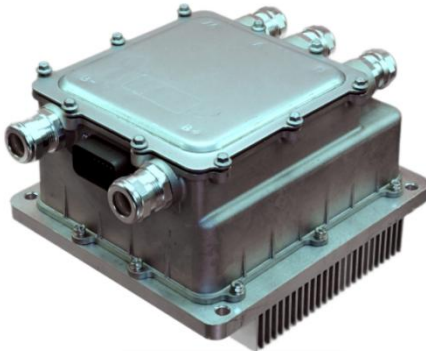
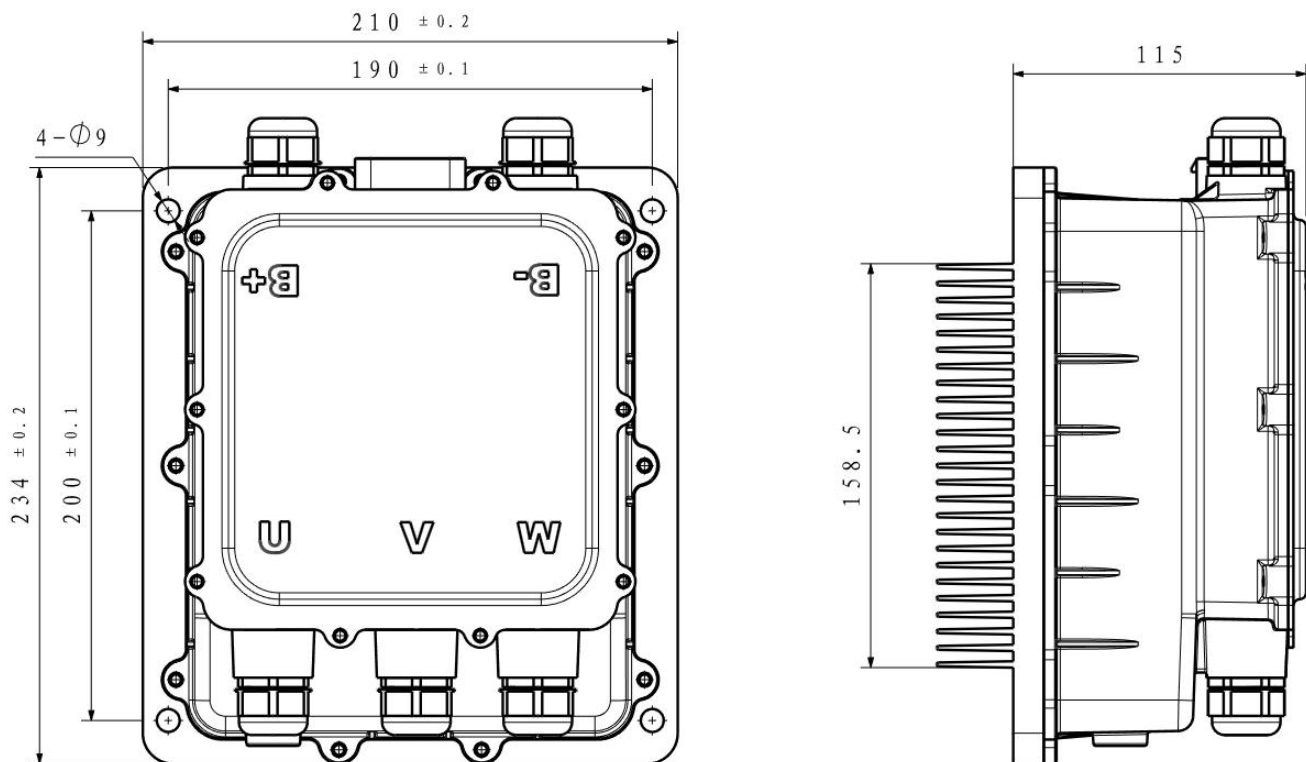




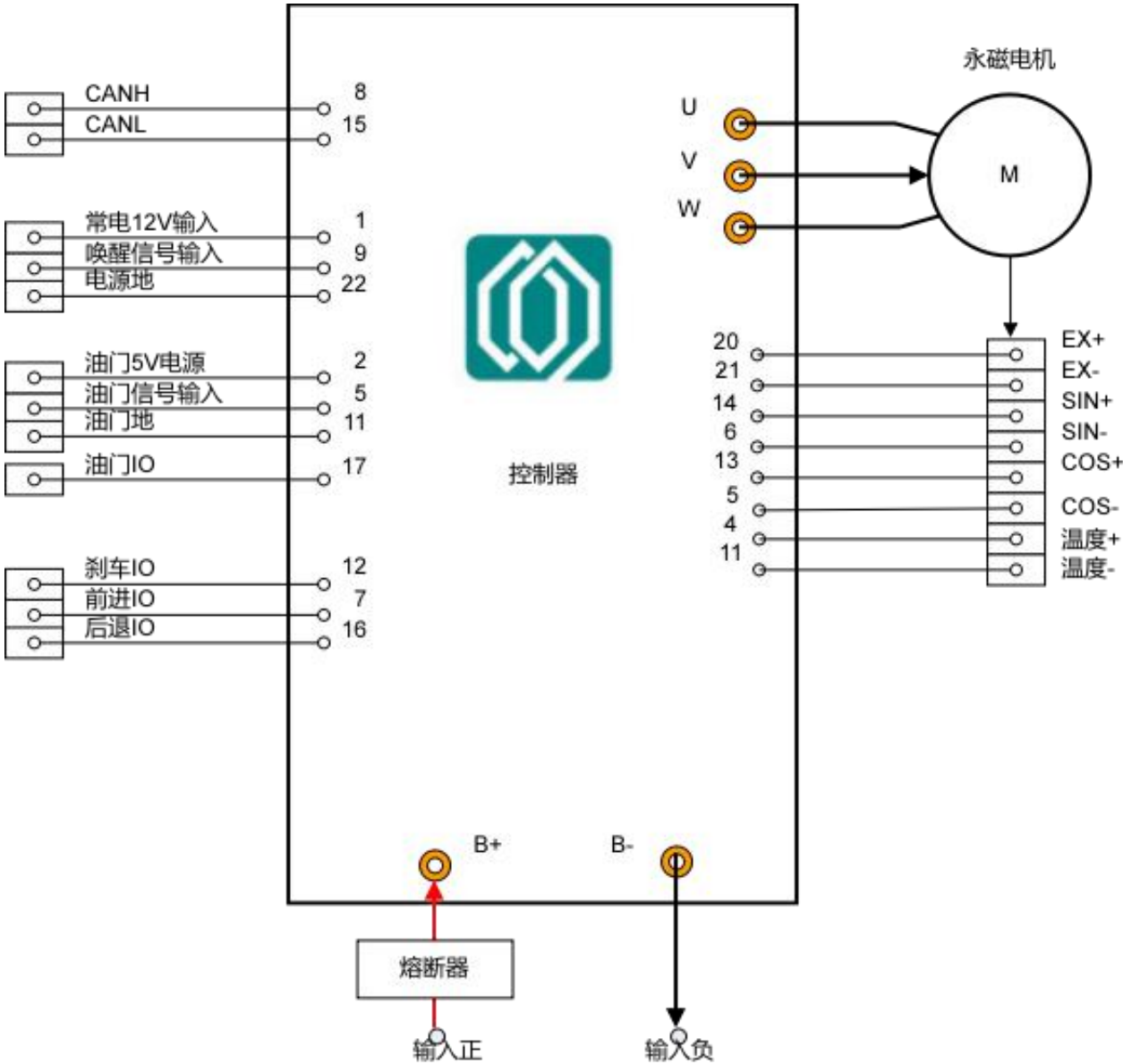
- Isolated Type
- All-Aluminum Housing
- IP67

■ Dimensions & Installation Instructions



Optional cooling configuration as required
Terminal screws: M8×12 (tightening torque 9~12 N • m)

■ Wiring Definitions



Controller Interface Definitions (23Pin, 1-776228-1) (harness end 770680-1)



Pin	Function definition	Signal	Pin	Function definition	Signal Range
1	Constant 12V input	Power	16	Reverse (IO4), active high/low configurable	0~12V
2	+5V output	Power	17	Throttle (IO5), active high/low configurable	0~12V
3	Throttle signal input (AD1)	0~5V	18	+5V output	Power
4	Motor temperature sensor input		19	Reserved signal input (AD2)	0~5V
5	Resolver COS-		20	Resolver EX+	
6	Resolver SIN-		21	Resolver EX-	
7	Forward (IO1), active high/low configurable	0~12V	22	Power GND	
8	CANH		23	Reserved signal input (AD3)	0~5V
9	Wake-up signal input	0~12V			
10	Reserved (IO2), active high/low configurable	0~12V			
11	Signal GND				
12	Brake (IO3), active high/low configurable	0~12V			
13	Resolver COS+				
14	Resolver SIN+				
15	CANL				

■ **Technical Specifications**

Model	DEMC72I01	DEMC72I51
Rated Input Voltage (DC-V)	72	96
Rated Input Current (DC-A)	180	
Input Voltage Range (DC-V)	48~88	70~120
Maximum Input Current (DC-A, 30s)	400	
Maximum Output Current (AC-A@10s)	900	700
Peak Power (kW)	30	40
Operating Ambient Temperature (°C)	-20~+65	
Motor Type	PMSM / SynRM / Induction Motor	
Motor Control Method	FOC/MTPA/SVPWM/Flux Weakening	
Motor Sensor Type	Resolver	
Maximum Efficiency	98%	
Protection Strategy	OverCurrent / OverVoltage / OverTemperature / Stall	
Dimensions (mm)	218*175*85.5	
Weight (kg)	<5	
Communication	CAN2.0	
Cooling Method	Forced Air Cooling	
Protection Rating	IP67	

■ Product Features

- Mainstream ARM is used as the main control chip.
- 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.
- Optional anti-rollback function on slopes improves driving safety.
- Software can be customized to meet the different requirements of individual customers.
- All-aluminum housing, fireproof and waterproof.

■ 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.