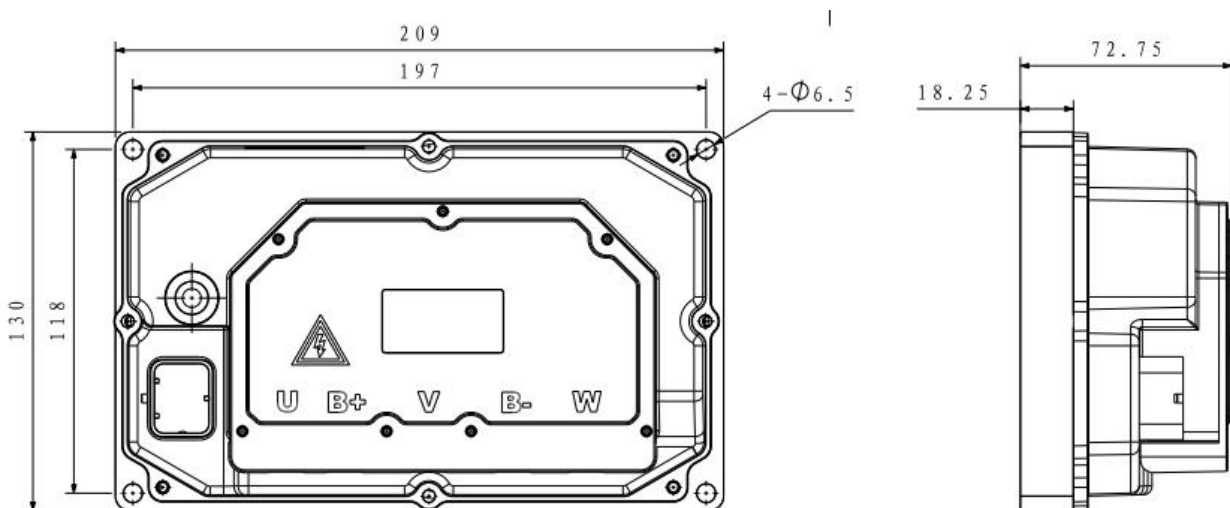




- IP66
- Isolated Type

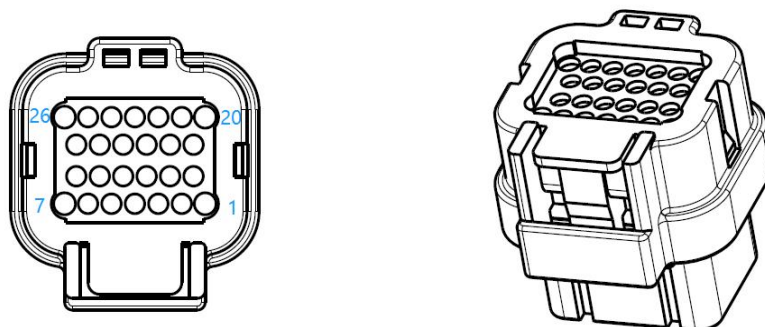
■ Dimensions & Installation Instructions



Terminal screws: M6×12 (tightening torque 8~10 N • m)

■ Wiring Definitions

Harness end connector 3-1437290-7



Controller Interface Definitions (26Pin) (female end 3-1437290-7)					
Pin	Function definition	Signal Range	Pin	Function definition	Signal Range
1	Mag-Enc Z+	0~5V	14	Parking	0~12V
2	Mag-Enc B+	0~5V	15	High speed	0~12V
3	Mag-Enc A+	0~5V	16	Low speed	0~12V
4	Hall 5V+	5V	17	CANH	0~5V
5	Motor temperature	0~3.3V	18	5V output OUT1 (BMS0)	5V
6	Speed control signal	0~5V	19	5V output OUT2 (BMS1)	5V/12V
7	Throttle Hall THROTTLE 5V	5V	20	TCS AD5(TCS)	0~12V
8	Function input (ADin7) AD7 one-key energy regeneration	Reserved /	21	Kickstand IO2	0~12V
9	Seat bucket switch	Reserved /	22	Reverse	0~12V
10	Mag-Enc PWM AD4	Reserved /	23	Brake IO6	Active when 12V applied
11	Mag-Enc GND	0V	24	CANL	0~5V
12	Throttle GND THROTTLE GND	0V	25	Battery GND	0V
13	12V wake-up WAKE UP (connect key switch)	12V	26	Constant 12V	9~16V
Remarks: CAN terminating resistor 120 Ω not soldered by default (CAN instrument and CAN battery)					

■ **Technical Specifications**

Model	DEMC36I1XXX	DEMC36I0XXXX
Rated Input Voltage (DC-V)	96	72
Rated Input Current (DC-A)	75	95
Input Voltage Range (DC-V)	70~125	36~88
Maximum Input Current (DC-A, 30s)	130	175
Maximum Output Current (AC-A@10s)	480	530
Operating Ambient Temperature (°C)	-20~+65	
Motor Type	PMSM / SynRM / Induction Motor	
Motor Control Method	FOC/MTPA/SVPWM/Flux Weakening	
Motor Sensor Type	ABZ (+PWM) / HALL ABC (select one of two)	
Efficiency	98%	
Protection	OverCurrent / OverVoltage / OverTemperature / Stall	
Dimensions (mm)	205×125×73 (excluding outer teeth dimensions)	
Weight (kg)	<2.5	
Communication	CAN2.0	
Cooling Method	Forced Air Cooling	
Protection Rating	Internal 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.
- Isolated System

■ 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.