

B8

Electric Pallet Truck Driver Specification



● Product Features

The B8 is a controller product designed for lift pump control and travel motor control of electric pallet trucks. This product achieves the lifting function by driving the pump motor, and controls the forward and backward movement of the pallet truck through motor drive control.

For the electric pallet truck platform, this product features compact size, low heat loss, and strong overload resistance.

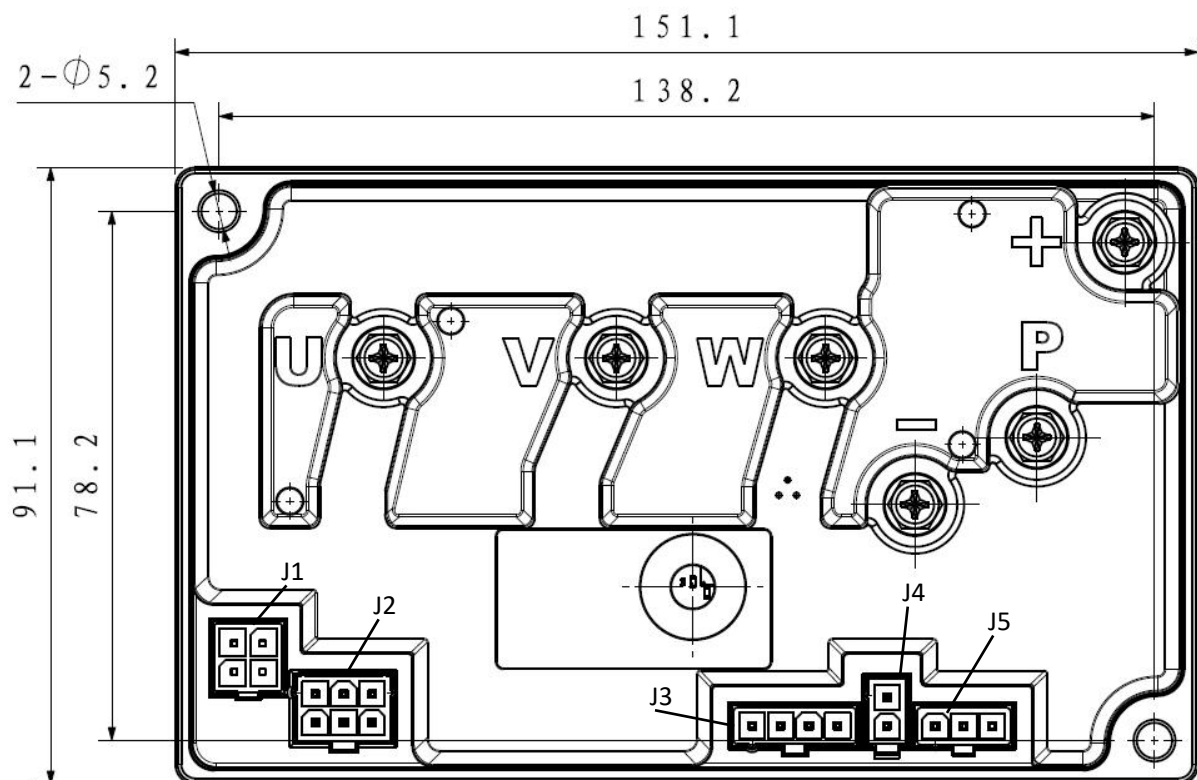
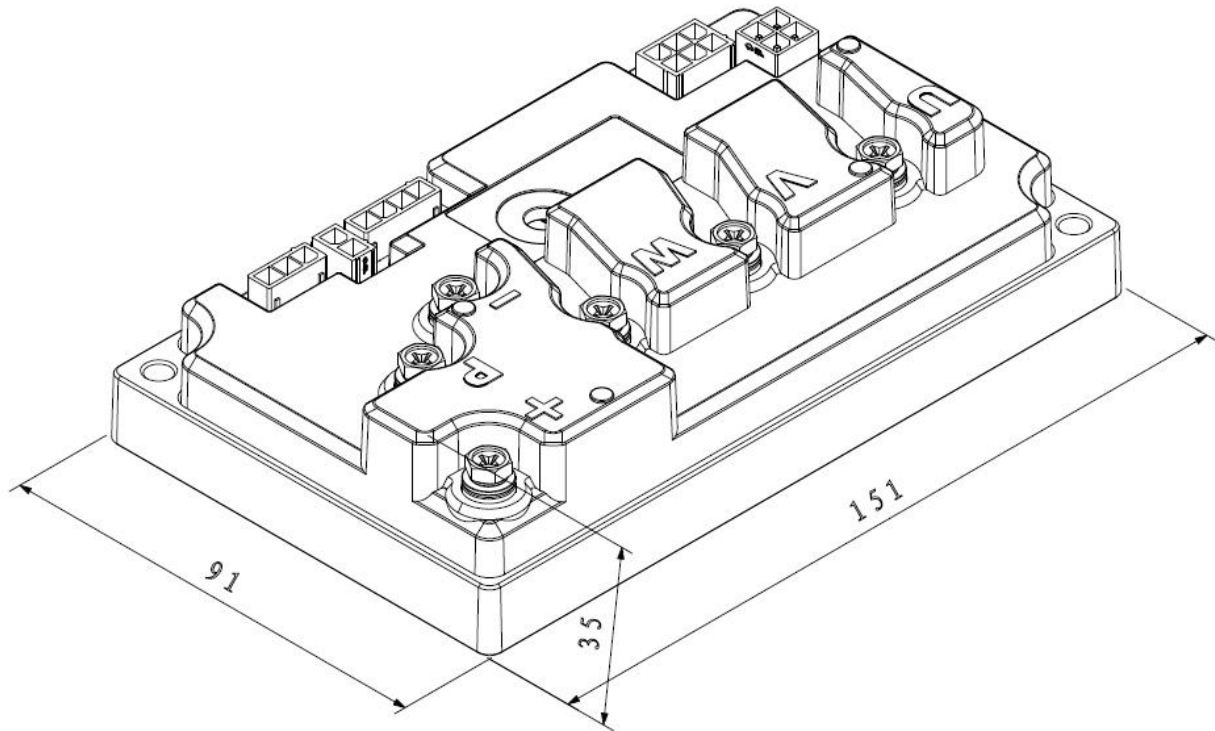
- Integrated travel drive and lift control
- Intelligent lift position detection without limit switches
- Upper controller with screen display
- Supports stepless speed regulation
- Overvoltage protection
- Short circuit protection
- Speed regulator disconnection protection
- Supports field upgrades
- Undervoltage , deep undervoltage shutdown, and motor coil short circuit protection
- Over temperature protection
- Based on TOLL MOS design, providing superior overload capability and sustained output performance

● **Technical Specifications**

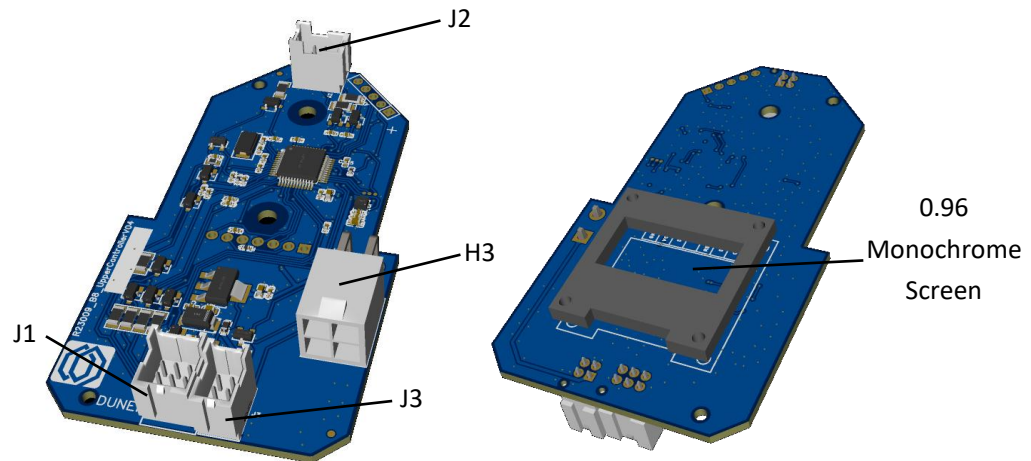
No.	Parameter	Value
1	Rated Operating Voltage	48V
2	2-Minute Operating Current	80A
3	1-Hour Operating Current	40A
4	10-Second Operating Current	120A
5	Lift Current	40A
6	Operating Temperature	-20~45°C
7	Storage Temperature	-40~90°C
8	Communication Method	CAN Communication
9	Operating Humidity	Max 95% RH
10	Protection Rating	IP65
11	Terminal Tightening Torque	1.5Nm±0.2Nm
12	Weight	0.72 kg
13	Design Life	≥5000h
14	EMC Standards	EN 55014-1 、 EN55014-2 、 FCC.Part.15B 、 EN12895:2015
15	Vibration Standard	EN60068-2-6

- (1) The drive unit was mounted on a 250 mm × 250 mm × 5 mm aluminum plate for testing.。
- (2) Tests without specified temperature are conducted at an ambient temperature of 25°C.

● **Controller Dimensions (Unit: mm)**



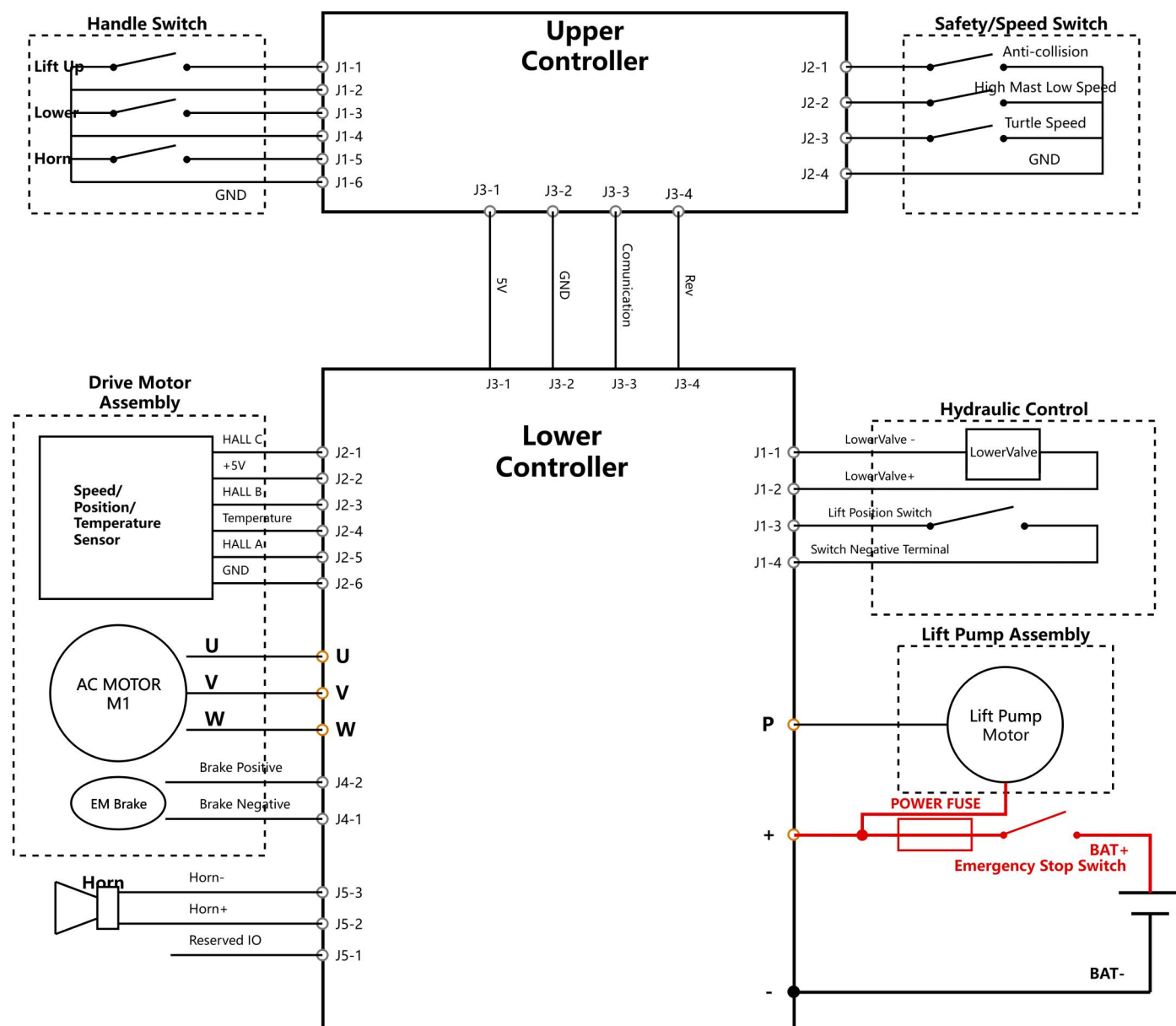
- **Upper Controller Dimensions (Customizable)**



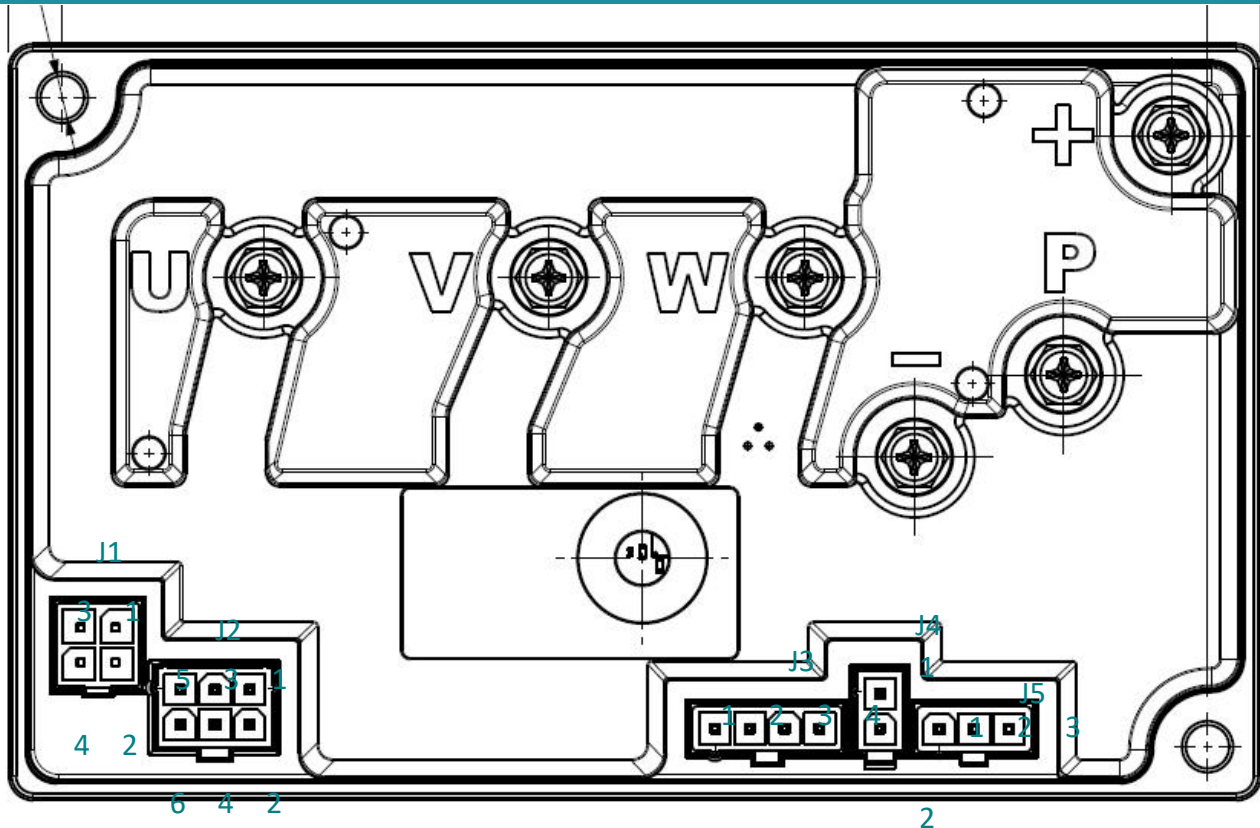
Dimensions: 80.5mmX45mm

● **Wiring Instructions**

Electric Pallet Truck Control System Wiring Diagram



● ControllerInterface Definition



J1 Interface Definition:

Socket Model: 5557-2*2A Terminal Model: 5557-2*2Y Pin Model: 5557-T

1-Lowering valve negative terminal、2-Lowering valve positive terminal、3-Lift limit switch positive、4-Lift limit switch switch negative

J2Interface Definition:

Socket Model: 5557-2*3A Terminal Model: 5557-2*3Y Pin Model: 5557-T

HallC、2-5V、3-HallB 4-Temperature、5-HallA、6-GND

J3Interface Definition:

Socket Model: 5557-1*4A Terminal Model: 5557-1*4Y Pin Model: 5557-T

1-5V Output、 2-GND、 3-Communication Line 4-Reserved

J4Interface Definition:

Socket Model: 5557-1*2A Terminal Model: 5557-1*2Y Pin Model: 5557-T

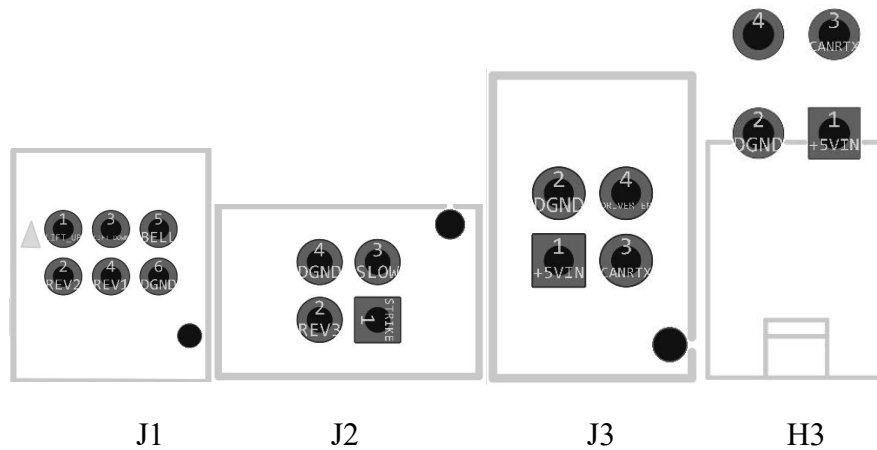
1-Brake Negative、 2-Brake Positive

J5Interface Definition:

Socket Model: 5557-1*3A Terminal Model: 5557-1*3Y Pin Model: 5557-T

1-Reserved、 2-Buzzer Positive、 3-Buzzer Negative

● Upper ControllerBoardInterface Definition



J1 Interface Definition:

Socket Model: HC-SPH-2*3A Terminal Model: HC-SPH-2*3Y Pin Model: HC-SPH-T

1-Lift、2-Reserved、3-Lower、4-Reserved、5-Horn、6-GND

(all signals are low active)

J2 Interface Definition:

Socket Model: HC-SPH-2*2A Terminal Model: HC-SPH-2*2Y Pin Model: HC-SPH-T

1-Anti-collision、2-Upright Travel、3-Crawl Speed、4-GND

(all signals are low active)

J3 Interface Definition:

Socket Model: HC-SPH-2*2A Terminal Model: HC-SPH-2*2Y Pin Model: HC-SPH-T

1-Power、2-GND、3-Communication、4-Reserved

H3 Interface Definition (Same Function as J3):

Socket Model: 5557-2*2AW 端子型号: 5557-2*1Y Pin Model: 5557-T

1-Power、2-GND、3-Communication、4-Reserved

● Installation Instructions

To prevent external corrosion, carefully select the installation location to keep the driver installation environment as clean and dry as possible. It is recommended to mount the driver on a clean, flat metal surface.

The mounting surface is an integral part of the driver's overall heat dissipation. To enhance its heat dissipation capability, thermal grease can be used to improve heat conduction from the driver heatsink to the mounting surface.

When installing cables capable of carrying high currents (+ Cable, - Cable, P Cable), follow the wiring diagram strictly. If two wires are fitted to the same terminal stud, **install the low-amperage wire on top** to guarantee full direct contact between the high-amperage wire and the terminal stud.