

# SPECIFICATION FOR INVERTER

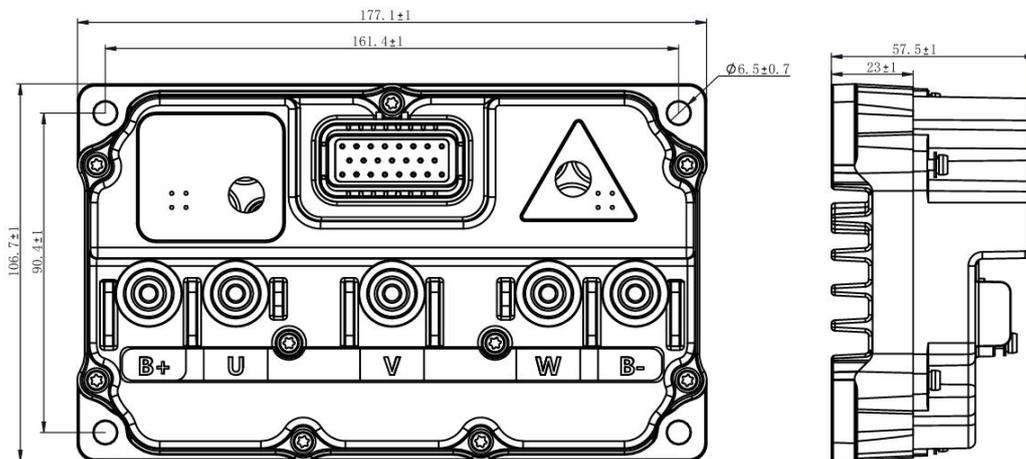
## SZ8720-LGSE



## 1. Product Model & Specification

<b>SZ8720-LGSE</b>			
Rated Voltage	72 V	Communication protocol	CAN
Peak Power	8 kW	Undervoltage protection	Software adjustable
Maximum currents	230 A	IP class	IP67
Product Weight	1.5 kg	Operating temperature	-25°C~65°C
Mounting dimensions	177.1×106.7×57.5 mm	Application	Two-wheel Electric Motorcycle, etc.

## 2. Outline Dimension



## 3. Interface Function

### 3.1. Inverter Installation and Matching Cable

#### 3.1.1. Power Cable Selection

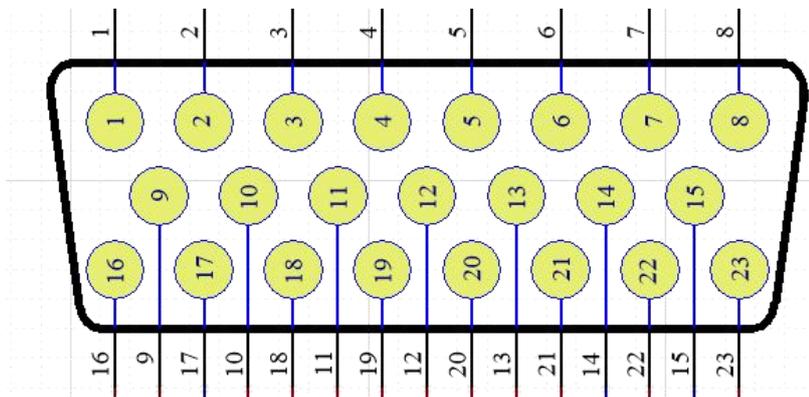
Recommended matching cable size: 15-25 square millimeters.

Screw size M5\*16, the installation torque for the screws is 4 N ± 0.5 N.

### 3.1.2. Wiring Definition

No.	Definition
B+	The positive terminal of the power supply is generally connected to the output terminal of the main contactor.
B-	Power supply negative terminal, connected to the negative terminal of the storage battery
U	Connect the U-phase of the motor.
V	Connect the V-phase of the motor.
W	Connect the W-phase of the motor.

### 3.1.3. Terminal Model and Pin Definition



Plug type (AMP P/n:770680-1)

Terminal No.	Function	Voltage Range	Terminal No.	Function	Voltage Range
1	CAN-H	/	13	Hall Power Grounding	0V
2	CAN-L	/	14	Cruise Control	Low effective
3	Throttle Power	4.3V+	15	R gear	Low effective
4	Reserved Digital I/O	Low effective	16	P gear	Low effective
5	Motor Temperature	Matching NTC10K temperature sensor	17	Start Button	Low effective
6	Throttle Signal Input	0-4.2V	18	Seat Inspection	Low effective
7	Electric Door Lock	72V	19	Side Bracket	Low effective
8	Grounding	0V	20	High Side Brake	High effective

9	A	0/5V	21	Reserved Digital I/O	Low effective
10	B	0/5V	22	Mode+ (Mode Loop)	Low effective
11	C/Z	0/5V	23	Mode - (Energy Recovery Cycle)/PWM	Low effective/0/5V
12	Hall Power	4.3V+	/	/	/

## 4. Other

### 4.1. Design Standard:

EMC standard: EN12895:2015

### 4.2. Safety Standards:

EN1175-1:1998+A1:2020 、 EN (ISO) 13849-1 、 UL 583

### 4.3. Application Drive motor range:

PMSM