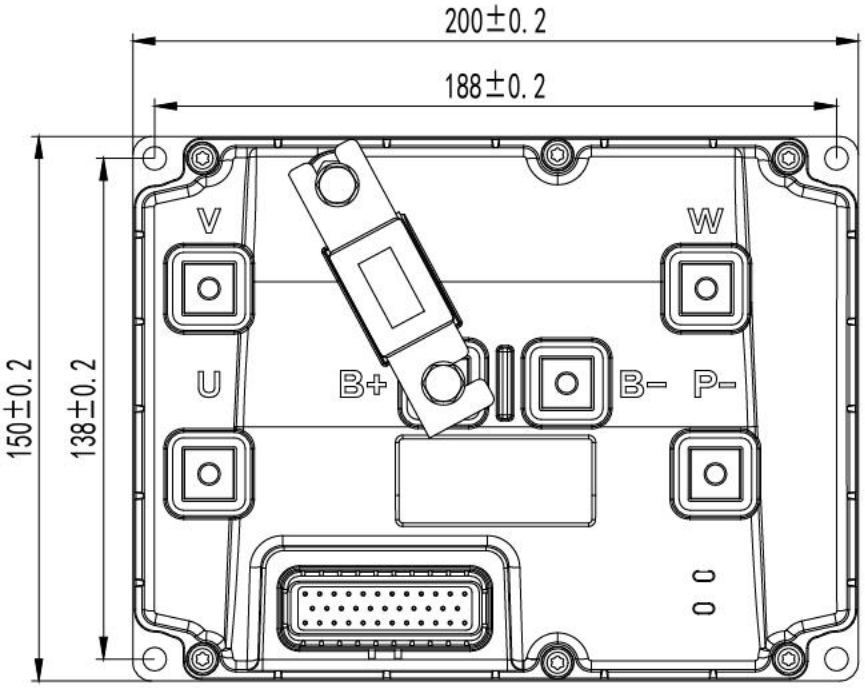
SPECIFICATION FOR INVERTER

SZ8540-D3DL-01

1. Product Model & Specification

SZ8540-D3DL-01			
Rated Voltage	48 V	Communicati on protocol	CAN
Peak Power	19 kW	Undervoltage protection	Software adjustable
Maximum currents	350 A	IP class	IP67
Product Weight	2.2 kg	Operating temperature	-25℃～80℃
Size	200*150*79 mm	Application	Aerial working platform

2. Outline Dimension



3. Interface Function

3.1.Inverter Installation and Matching Cable

3.1.1.Power Cable Selection

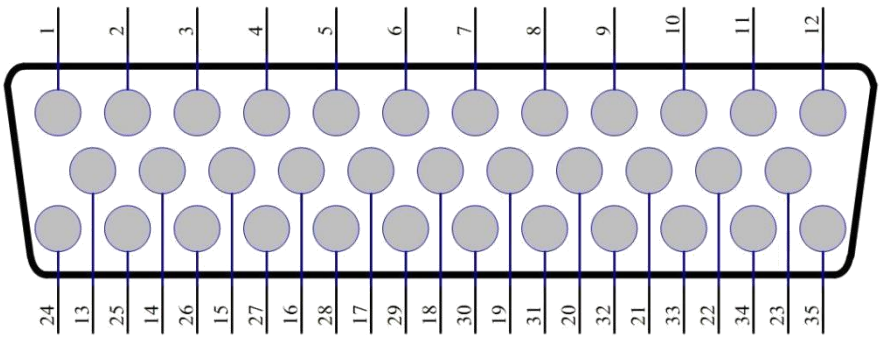
Recommended matching cable size: 35-50 square millimeters.

Screw size M6*20, the installation torque for the screws is 6 N ± 1 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



Connector model AMPSEAL-35P (P/n-1-776163-1),
mating connector model (P/n-1-776164-1)

Terminal No.	Function	Voltage Range	Terminal No.	Function	Voltage Range
1	/	/	19	RDC-SIN+	/
2	1ST	High effective	20	RDC-COS-	/
3	KEY	48V	21	RDC-EXC-	/
4	EXTERNAL+5 V	5V	22	/	/
5	CPOT1	0-4.2V	23	LIFT enable	High effective
6	FW	High effective	24	PEV	48V
7	BW	High effective	25	/	/
8	RDC-SIN-	/	26	NMC	Low-side drive
9	RDC-COS+	/	27	PEB	48V
10	RDC-EXC+	/	28	NEB	Low-side drive
11	LOWERING	High effective	29	EVP1	Low-side drive

12	2ND	High effective	30	CANL	/
13	/	/	31	CANH	/
14	HARD&SOFT	High effective	32	GND	0V
15	GND	0V	33	PTH	Temperature sensor
16	CPOT2	0-4.2V	34	EVP2	Low-side drive
17	QI/PB	High effective	35	/	/
18	GND	0V			

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