ASPP Controllers 48-110V











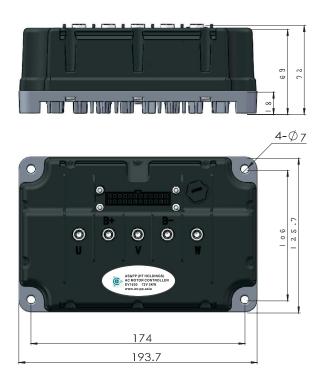
Features

- The advanced vector control algorithm smoothes the output torque of the motor, suppresses the low-frequency noise caused by the motor torque fluctuation, and realizes precise control of the motor torque and speed.
- Imported high–power MOSFETs are used as power devices to achieve low noise and high efficiency energy conversion.
- Power-on self-test, provide the host computer to realize the function of on-site configuration parameters, and realize the parameters that can be flexibly adjusted to adjust the handling performance of the vehicle to meet the requirements of different road conditions and various use environments.
- Brake or reverse energy feedback control, improve the driving range of the vehicle, realize the auxiliary function of electronic brake, and effectively ensure the safety of the vehicle.
- High engine management, high torque 。
- Different anti-slipping mechanism effectively solves the problem of difficult starting on slopes, and at the same time protects the electronic control from overheating failure caused by anti-slipping for a long time.
- The buzzer prompts various faults for easy maintenance.
- Perfect protection functions such as accelerator failure, undervoltage, overvoltage, overcurrent, and overheating improve the reliability of the system.

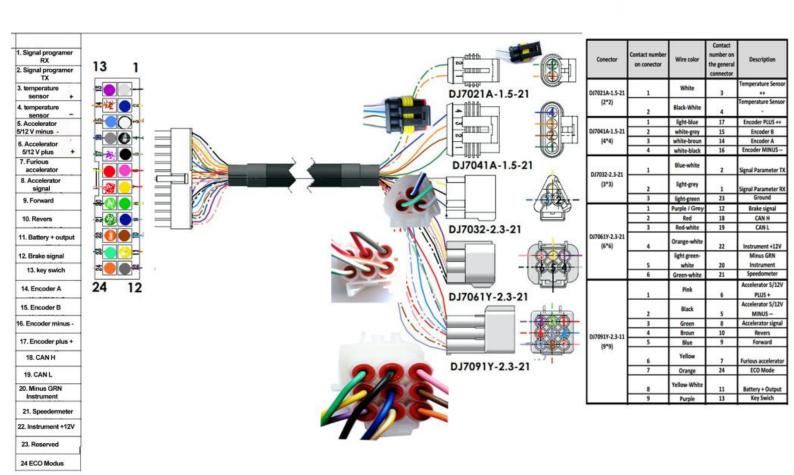
Product selection and specifications

model	Max Currrent (A)	Nom Current (A)	Voltage (V)	Power(KW)	
			48 (30 ~ 78)	6KW	
ASPP1630	180	60	60 (40 ~ 78)	6.75KW	
			72 (50 ~ 96)	7.5KW	
			48 (30 ~ 78)	10KW	
ASPP 2230	220	70	60 (40 ~ 78)	11.5KW	
			72 (50 ~ 96)	12.5KW	
			48 (30 ~ 78)	12KW	
ASPP 2730	275	85	60 (40 ~ 78)	13.5KW	
			72 (50 ~ 96)	15KW	
			48 (30 ~ 78)	12KW	
ASPP2750	275	85	60 (40 ~ 78)	13.5KW	
			72 (50 ~ 96)	15KW	
			48 (30 ~ 78)	13KW	
ASPP 3150	312	102	60 (40 ~ 78)	15.5KW	
			72 (50~96)	17KW	
			48 (30 ~ 78)	15KW	
ASPP 3550	350	120	60 (40 ~ 78)	18KW	
		120	72 (50~96)	21KW	
			48 (30 ~ 78)	20KW	
ASPP 4075	400	120	60 (40 ~ 78)	25KW	
			72 (50 ~ 96)	30KW	
			72 (60 ~ 96)	36KW	
ASPP5013	500	120	96 (80 ~ 120)	50KW	
			110 (80 ~ 125)	55KW	
			72 (60 ~ 96)	40KW	
ASPP 7013	550	150	96 (80 ~ 120)	55KW	
			110 (80 ~ 135)	60KW	
			72 (60 ~ 96)	45KW	
ASPP 8013	550	200	96 (80 ~ 120)	60KW	
			110 (80~135)	65KW	
Drive functions	2. Regenerativ 3. Limited rev		st system in ascending speed;	ng start;	
Functional interface	 Movement control: forward, reverse, neutral; Mode selection: Sport / Eco; Brake control; Accelerator position signal; Accelerator switch signal; Power consumption control; Motor temperature; Serial debugging interface; Controller local network (CAN)10. Tachometer output signal sensor 				
Working temperature					
Protection class	IP65				
Insulation	Input-output for frame DC1000 V; Leak current 0.05MA;Isolation resistance 20MOhm				
Efficiency	98%				

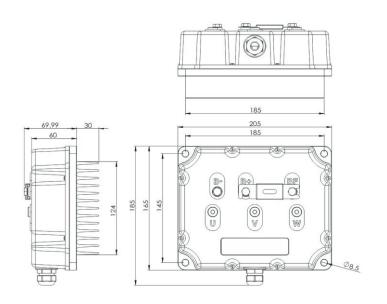
1.8kW-5kW Controller installation and wiring definition

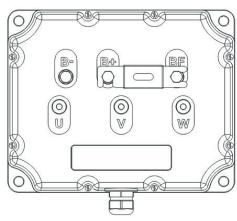






3.5kW-6kW Controller installation and wiring definition





Wire color

White

Black-White

light-blue

white-grey

white-broun

white-black

Blue-white

Contact

number on

the general

connector

3

17

15

14

16

Description

Temperature Sensor

Temperature Sensor

Encoder PLUS ++

Encoder B

Encoder A Encoder MINUS --

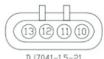




DJ7091-2.3-11







2 1 Signal Parameter TX DJ7032-2.3-21 (3*3)light-grey 2 Signal Parameter RX 3 23 Ground light-green 1 Purple 12 Brake signal 18 **CAN H** 2 Red 3 Red-white 19 CAN L DJ7061Y-2.3-21 Orange-white (6*6)4 22 Instrument +12V light green-Minus GRN white 20 Instrument Speedometer 6 Green-white 21 Accelerator 5/12V Pink 6 1 PLUS + Accelerator 5/12V Black MINUS --5 2 8 Accelerator signal 3 Green 4 10 Broun Revers DJ7091Y-2.3-11 5 9 Blue Forward (9*9)Yellow **Furious accelerator** 6 7 7 Orange 24 **ECO Mode** DJ7041-1.5-21 Yellow-White 8 11 Battery + Output **Key Swich** 9 13 Purple

Contact number

on conector

1

2

1

2

3

4

Conector

DJ7021A-1.5-21

(2*2)

DJ7041A-1.5-21

(4*4)

Electrical parameters: Input voltage range (DC / V): 35 ~ 120 Maximum output current (AC / A): 500 Rated output current (AC / A): 130 Controller pneumatic voltage (DC / V): 45 Protection level: IP66 Insulation performance: input and output to the chassis

DC1000V leakage current 0.05mA, insulated Resistance 20M Ω Storage temperature: -40°C ~ 70 °C Efficiency: 98%

- Note:
 1. The directions of the terminals shown in the figure are the incoming directions
- 2. B + grounded battery positive pole, B - grounded battery negative pole,
- U, V, W are connected to the motor U, V, W three-phase
- 3. U, V, W motor wire and battery link wire diameter 25mm²
- 4. The terminal is fixed with M8 * 20 bolts, M8 bolts Torque 8 ~ 11Nm
 5. Unmarked items are implemented according to industry standards



2 -**pin**









Temperature Sensor					
Nº	meaning color				
1	plus+	white			
2	minus -	Black- white			

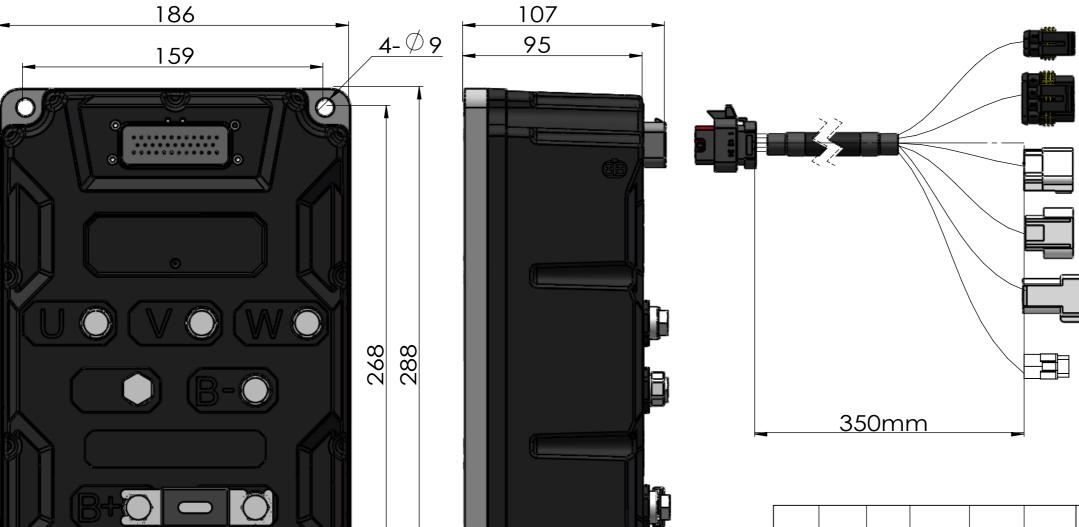
Encoder					
Nº	meaning	color			
3	Encoder 5V+	P urple white			
4	Signal B	Li ght bl ue			
5	Signal A	Brown			
6	Encoder 5V-	gray			

<u>}</u> –	connect	or	CAN	- and display	
meaning color		N IO			
		blue	Nº	meaning	color
	Serial (T)	White	10		<u>-</u>
	/	. Light	11	CANH	red
	Serial (R)	gray	12	CANL	red whith
	Serial minus	Light	13		
		green	14	display 12V-	light green white
			15	Speed	green white

meaning	color
Accelerator5/ 12V+	pink
Accelerator5/ 12V-	black
Accelerator signal	green
Revers	Brown
Forward	blue
Accelerator switch signal	yellow
ECO	Orange
12V+/power supply	Yellow white
Key/KSI	purple
	Accelerator5/ 12V+ Accelerator5/ 12V- Accelerator signal Revers Forward Accelerator switch signal ECO 12V+/power supply



- P								
Brake signal								
Nº	Nº meaning color							
25	Brake signal-	Orange white						
26	Brake signal+	gray						



Nº	Alarm code	meaning	action			
1	Long sound	High pedal failure	Do not run			
2	1 long 2 short	Precharge failure	Do not run			
3	1 long 3 short	Overcurrent	Shutdown			
4	1 long 4 short	Controller overheating	Shutdown			
5	1 long 6 short	Current sampling failure	Shutdown			
6	1 long 9 short	Battery undervoltage	Shutdown			
7	1 long 10 short	Battery overvoltage	Shutdown			
8	1 long 11 short	Motor overheating	Shutdown			
9	1 long 13 short	Accelerator failure	Shutdown			
10	1 long 14 short	Internal current detection failure	Shutdown			
11	1 long 15 short	Encoder failure	Shutdown			

Controller alarm code

			Model: ASPP 5013	version	on numb	per: V1.0
				JS	. 231. 16	520. 02. 001
				weight		

Parts code

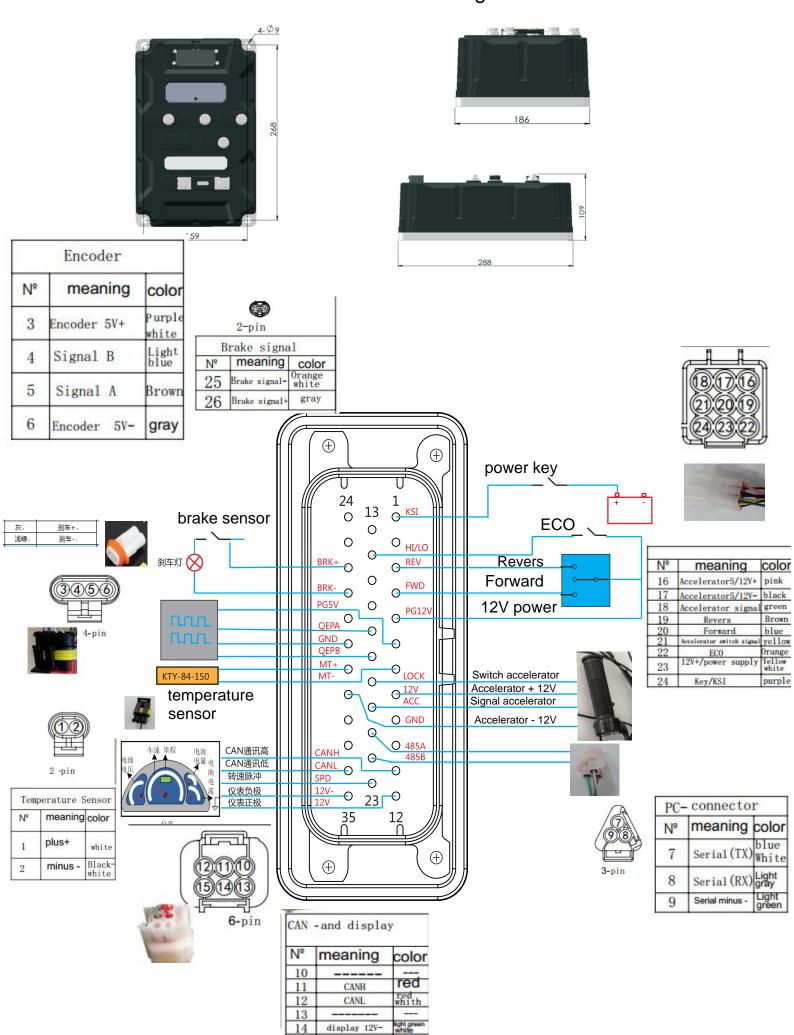
registration

Tracing

描校

Basemap total number

7.5kW-15kW Controller installation and wiring definition



15

Speed

Frequently Asked Questions

(1) The wiring of the controller is normal. What happens when I lightly step on the accelerator and find that the car does not go, or shakes at a very slow speed?

Answer: This situation shows that the controller starts to output, there are 2 possibilities:

- 1. The motor encoder is normal, but the phase sequence of the motor is not correct. You need to change the U V or V W phase of the motor.
- 2. The motor encoder is abnormal, such as abnormal power supply to the encoder, wire breakage, poor terminal contact, wrong terminal sequence, and encoder damage. Bad.

Note: Only when the encoder is normal, the replacement of the motor phase sequence is effective.

(2) The wiring of the controller is normal. After stepping on the accelerator, I found that the car reversed in forward gear. What happened to forward in reverse gear?

Answer: There is a misunderstanding when this situation arises: Is it possible to adjust the forward / reverse of the gear shifter? The answer is no. Controller forward and reverse gear The bit cannot be changed at will.

When the running direction is reversed, the following two items should be handled:

- 1. Adjust the phase sequence of the motor and exchange the U V or V W phase of the motor.
- 2. Change the position of the motor encoder A / B signal.
- (3) Turn on the key switch and find that there is no response after stepping on the accelerator.

A: When this happens, you can analyze from the following aspects

Use the host computer software to check whether the communication is normal, and check whether the accelerator is properly connected. The prerequisite for the controller to output: yes Direction signal; no brake signal; accelerator has output. When the conditions for computer monitoring are not available, manual inspection is required.

(4) Alarm fault code:

	Controller alarm code						
Nº	Alarm code	meaning	action				
1	Long sound	High pedal failure	Do not run				
2	1 long 2 short	Precharge failure	Do not run				
3	1 long 3 short	Overcurrent	Shutdown				
4	1 long 4 short	Controller overheating	Shutdown				
5	1 long 6 short	Current sampling failure	Shutdown				
6	1 long 9 short	Battery undervoltage	Shutdown				
7	1 long 10 short	Battery overvoltage	Shutdown				
8	1 long 11 short	Motor overheating	Shutdown				
9	1 long 13 short	Accelerator failure	Shutdown				
10	1 long 14 short	1-4	Shutdown				
11	1 long 15 short	Encoder failure	Shutdown				

