

7.5KW DC/AC Auxiliary Inverter Module

Model No. ATM7K5-540S24M-V6H4D7.5G

Specifications





Weight:≤ 1.4KG

Version: V() File No.: SM-P26-0



1 Product reference standards:

- Comply with GB/T18488.1-2015 "Technical conditions for motors and controllers for electric vehicles"
- Comply with GBT 18655-2010 Vehicles, ships and internal combustion engines Radio disturbance characteristics Limits and measurement methods for protecting on-board receivers
- Comply with GB/T18488.2-2015 "Test methods for motors and controllers for electric vehicles"
- Comply with GB4942.2-1993 "Protection levels for low-voltage electrical enclosures"

project	Specifications	Remark
DC supply voltage range	DC 350V—750V	
Controller communication mode	CAN 2.0	Support: 250kbps/500kbps
System low voltage control power supply	Scope: DC 9-36V	The low voltage power platform (12V or 24V) must be specified in the supplementary agreement
Precharge circuit	Controller comes with pre- charge	
Low voltage power consumption	≤12W	Rated operating conditions
Heat dissipation	0.2KW	Rated operating conditions
dimensions	185*132*66	mm
Controller weight	1.4	kg

2 Basic technical parameters of the product

2.1 Specific technical specifications:

DC/AC Control Module:

name	Performance parameters	Remark
Rated power (kW)	7.5KW	
Peak power (kW)	12KW	
Applicable motor	Permanent magnet synchronous motor/three-phase AC asynchronous motor	
Rated output current	17A	
Peak output current	26A	60S
efficiency	≥93%	Rated operating conditions



Overload capacity	150% 1 minute; 180% 10 seconds; 200% 0.5 second intervals 10 minutes	Inverse time characteristics	
Speed control range	1:100	Open loop speed mode	
Other features	CAN control, hard-wire control, CAN/hard-wire switching control, speed control, speed limit, torque limit, self-learning, fault reset, and host computer software functions.		
Protection function	Over-temperature, overload, phase short circuit, over-current, over-voltage, under-voltage, phase loss, stall, load sudden change during operation, etc., can be stopped immediately to protect the main body from damage.		

3.Product use conditions

3.1 Operating environment and storage environment

 \Box Working environment temperature: -40°C~+55°C

 \Box Operating relative humidity: 5%~95%, no condensation allowed

Altitude: Maximum working altitude 4000 meters

 \Box Allowable storage environment temperature: -40°C~+85°C

 \Box Allowable storage relative humidity: 5%~95%, no condensation allowed



4. Product performance description

4.1 Low voltage interface definition

Control harness interface X3 Client plug-in WY20-J12-TE plug	Pin No.	Client interface definition	Controller side definition	Remark
	1	Hardwire Enable	X1	High effective (operation signal
	2	spare	X2	Reserved (Low Active)
	5	ON檔12V+/24V+	X3	High effective (key signal
	4	GND	VIN-	Compatible with 12V, 24V

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	3	PT100+	PTA CND	Temperature
	12	P1100-	PIA-GND	detection optional
	6	Pressure switch signal	AI	Reserve
	7	Pressure switch signal ground	VIN-	Reserve
	9	Vehicle CAN H	CANH	No 120Ω terminal
	10	Vehicle CAN L	CANL	resistor
	11	ACC gear 12V+/24V+	VIN+, fan positive	Compatible with 12V, 24V

Remark:

1. X3 is the key signal;

2. Support CAN and hard-line control (CAN control gives priority to (autonomous switching) hard-line control, the specific control strategy shall prevail);

3. The cooling fan is controlled by software. RH3 outputs a low battery signal. The motor runs and the fan starts. The motor stops and the fan stops after 30 seconds;

4. Low is effective $(0 \le U \le 1V)$, high is effective $(9 \le U \le 36V)$;

5. The hardware is compatible with 12V or 24V. The fan needs to distinguish between 12V and 24V.



Dimension:



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