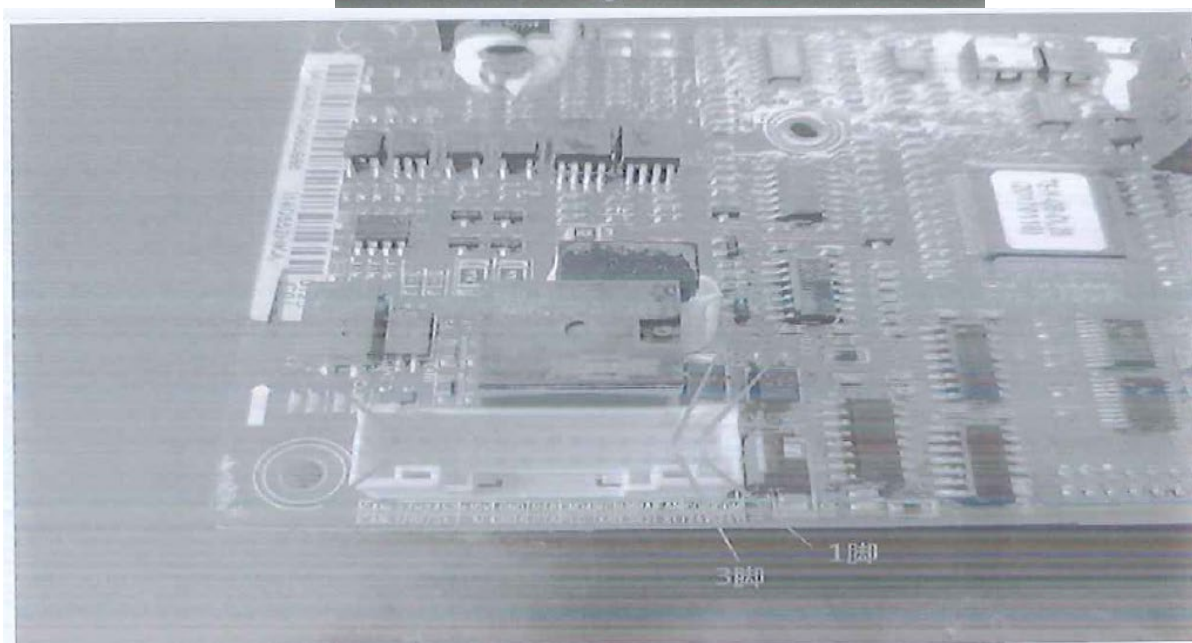
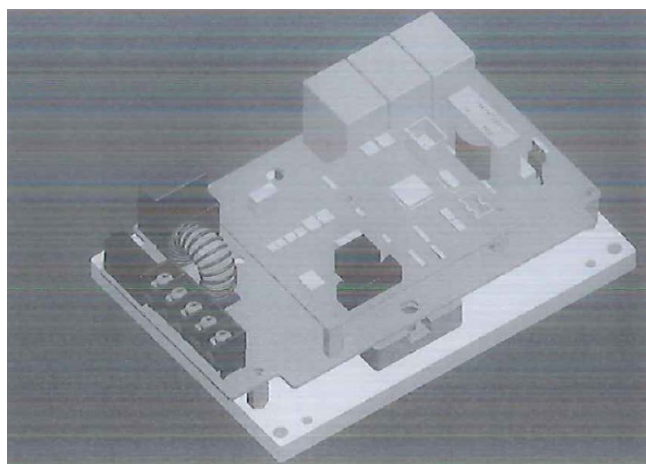




7.5KW DC/AC Auxiliary Inverter Module

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

Specifications



Weight: ≤ 1.4KG

**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"

2 Basic technical parameters of the product

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	$\leq 12W$	Rated operating conditions
Heat dissipation	0.2KW	Rated operating conditions
dimensions	185*132*66	mm
Controller weight	1.4	kg

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	$\geq 93\%$	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

- ☐ Working environment temperature: -40°C~+55°C
- ☐ Operating relative humidity: 5%~95%, no condensation allowed
- ☐ Altitude: Maximum working altitude 4000 meters
- ☐ Allowable storage environment temperature: -40°C~+85°C
- ☐ 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 gear 12V+/24V+	X3	High effective (key signal)
	4	GND	VIN-	Compatible with 12V, 24V



	3	PT100+	PTA	Temperature detection optional
	12	PT100-	PTA-GND	
	6	Pressure switch signal	AI	Reserve
	7	Pressure switch signal ground	VIN-	Reserve
	9	Vehicle CAN H	CANH	No 120Ω terminal resistor
	10	Vehicle CAN L	CANL	
	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 ($0 \leq U \leq 1V$), high is effective ($9 \leq U \leq 36V$);
5. The hardware is compatible with 12V or 24V. The fan needs to distinguish between 12V and 24V.



Dimension:

