

Model No. : ATD3K-540S27-M
Product Name : 3KW DC/DC Converter Module

Date	Apr. 28, 2020	Version	V02	Remark	1.Revised in Red on Page 1, Page2 and Page 3. 2.Ladel and Package information Added.
Date	Jul. 8, 2020	Version	V03	Remark	1.Model no. changed to ATD3K-540S27-M from AR3K-540S27M



3KW DC/DC Converter Module

Features

- 1 Charging Standard: IEC
- 2 Output Power : 3KW
- 3 Input Voltage : 400-750VDC
- 4 Output Voltage : 27.5VDC
- 5 Dimensions : 200X120X50mm
- 6 Cooling System : Module
- 7 Communication Method : CAN
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design
- 10 Weight: ≤1.8KG

Applications



Electric Bus 12M Low Flow

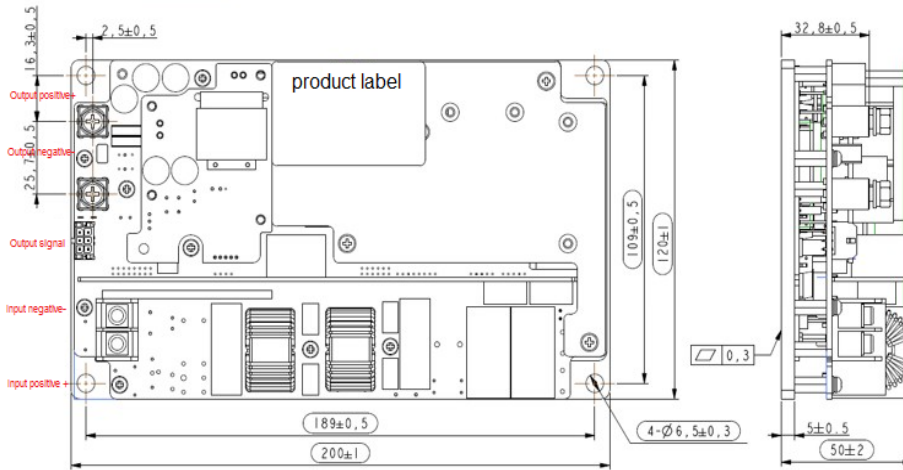
Specification

Description		Technical specifications	Remark
Operating temperature		-40~85°C	
Rated output power		3KW(Continuous operation at full load)	Peak power 3.6KW
Input voltage range		400-750VDC	
Output rated voltage		27.5VDC	Adjustable voltage
Rated output current		110A	
Auxiliary power VCC		9-32VDC	
Efficiency		≥95%	Rated voltage Full load
Output voltage ripple		≤500mVP-P	The bandwidth of the oscilloscope should be 20MHz, and the test terminal should be connected with 10uF electrolytic capacitor + 0.1uF disk capacitor
Protection characteristics		Input over and under voltage, output over and under voltage, input anti-reverse connection, output over current and short circuit protection, over temperature self-recovery	
Over temperature protection		When the temperature of the bottom plate reaches 85 ° C, the output will be derated. If the temperature exceeds 100 ° C, shut down; if the temperature is lower than 95 ° C, it can recover automatically.	
Dielectric strength	Input to output	3000VDC/1min 1mA max	
	Input to the outer casing	3000VDC/1min 1mA max	
Insulation resistance	Input to output	≥20MΩ	
	Input to the outer casing	≥20MΩ	
Battery compatibility	Radiation emission	GB/T 18655-2010 Class 3	
	Conducted emission	GB/T 18655-2010 Class 3	
	Static immunity	GB/T 19951-2005	Air discharge : 15KV · Contact discharge 8KV
	Radiation immunity	GB/T 18655-2010 Class 3	



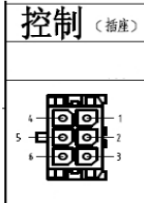
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Structural parameters

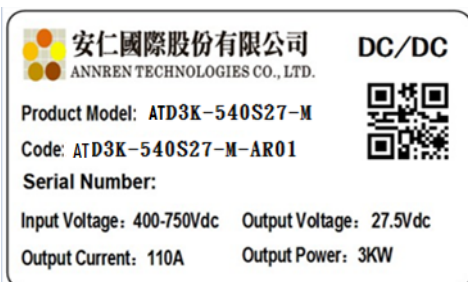


Connector information

Function	Maker	Receptacle model	Plug model
Control terminal	MOLEX	43045-0612	43025-0600
Input	/	M4 binding post	M4 screw
Output	/	M5 copper pillar	M5 screw

Maker	Model	Description		Remark
MOLEX	43045-0612	PIN1	VCC+	Control (Receptacle) 
		PIN2	Hardwire enable	
		PIN3	GND	
		PIN4	CAN-GND	
		PIN5	CAN-H	
		PIN6	CAN-L	
/	High voltage input	Input positive	IN +	It is recommended to use 2.5mm ² wire
		Input negative	IN -	
/	Low voltage output	output positive	OUT +	It is recommended to use 2.5mm ² wire
		output negative	OUT -	

Label



Package information

Carton size	200x120x50 (mm)
Weight (KG)	1.8KG

