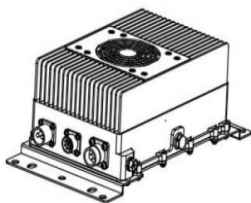


Model No. : ATD3K-540S27-A
Product Name : 3KW DC/DC Converter Fan System

Date	Apr. 28, 2020	Version	V02	Remark	1.Revised in Red on Page 1. and Page 2. 2.Ladel and Package information Added.
Date	Jul. 8th, 2020	Version	V03	Remark	1.Model no. changed to ATD3K-540S27-A from AR-3K-540S27-F



Module Only
3.0KW DC/DC Converter Fan cooling System

★ **Features**

- 1 Output Power : 3KW
- 2 Input Voltage : 400-750VDC
- 3 **Output Voltage : 27.5VDC**
- 4 Dimensions : 335X185X120mm
- 5 Cooling System : Fan
- 6 Protection Level : IP67
- 7 Communication Method : CAN
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design
- 10 **Weight: 3.5Kg**

Applications



Electric Bus 12M Low Flow

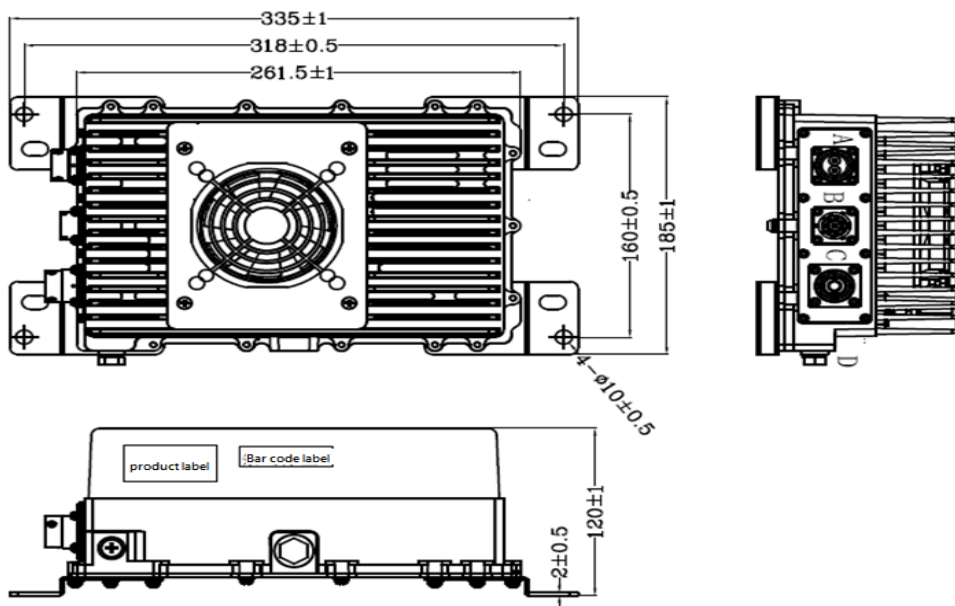
Specification

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		>93%	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-voltage, output over-voltage, input anti-reverse connection, output over-current and short-circuit protection, over-temperature self-recovery	
Over temperature protection		The bottom plate temperature reaches 85 °C to start derating output; the temperature exceeds 100 °C, shut down; the temperature is lower than 95 °C, self-recoverable	
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	



Model No. : ATD3K-540S27-A
 Product Name : 3KW DC/DC Converter Fan System

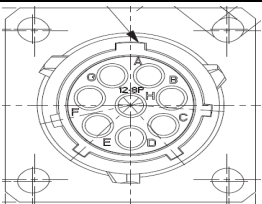
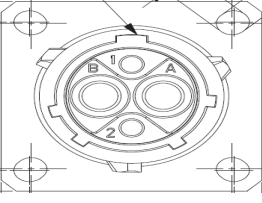
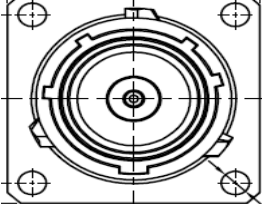
Structural parameters



Connector information

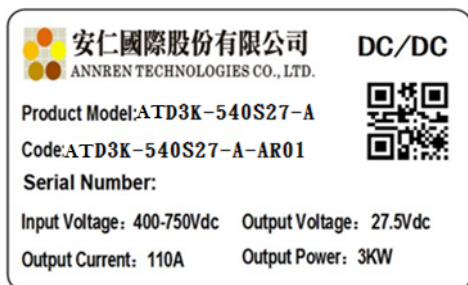
Position	Socket model	Features	Brand	Plug model
A	RT00122PN03	DC input	Amphenol	RT06122SNHEC03
B	RT00128PN03	Control terminal	Amphenol	RT06128SNHEC03
C	RTHP0141PN-H1	Output positive	Amphenol	RTHP6141SNH-25PS2
D	M8 screw bolt	Output negative	\	M8 Screw

Interface definition

Vendor	Model	Description		Remark
Amphenol	RT00128PN03	A	NC	
		B	CANL	
		C	CANH	
		D	Mask line	
		E	GND	
		F	NC	
		G	NC	
		H	Enable	
Amphenol	RT00122PN03	A	Input positive	
		B	Input negative	
		1	Interlock 1 connection 2	
		2	Interlock 2 connection 1	
Amphenol	RTHP0141PN-H1	+	Output positive	

Model No. : ATD3K-540S27-A
Product Name : 3KW DC/DC Converter Fan System

Label



Package information

Carton size	427x278x210 (mm)
Weight (KG)	3.5KG

