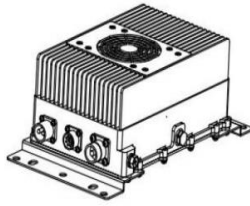




Model No. : AR3K-540S27F

Product Name : 3KW DC/DC Converter Fan System



Module Only
3.0KW DC/DC Converter Fan cooling System

Features

- 1 Output Power : 3KW
- 2 Input Voltage : 400-750VDC
- 3 Output Voltage : 27VDC
- 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: 5.6Kg(Net), 6Kq(Gross)

Applications



Electric Bus 12M Low Flow

Specification

Description		Technical specifications	Remark
Operating temperature		-40~85°C	85~100°C · Can be derated to 40% of work
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		≤ 300mV _{PK-PK}	
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	
	High current injection	GB/T 17619-1998	
	Fast burst immunity	GB/T 17626.4-2008 1KV	

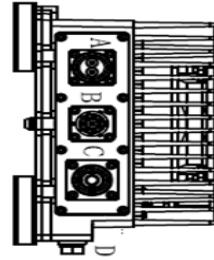
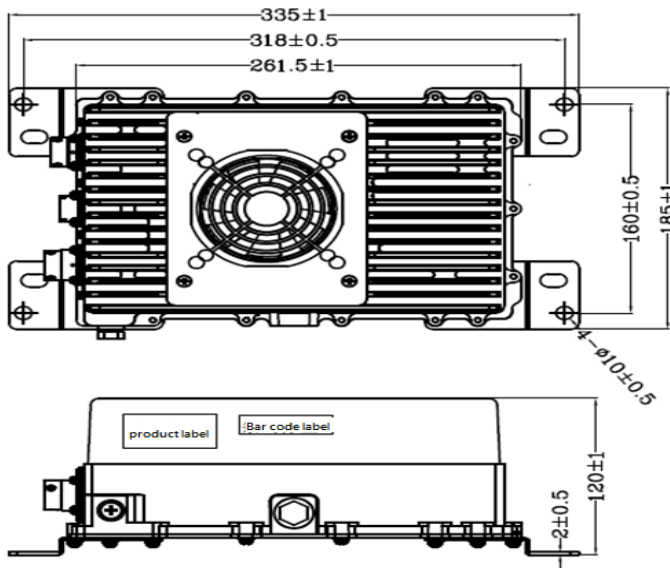




Model No. : AR3K-540S27F

Product Name : 3KW DC/DC Converter Fan System

Structural parameters



Label

Product Name	3KW DC/DC Converter Fan System
Product Part No.	E25.AR-3K-540S27-F
Product Model	AR-3K-540S27-F
Serial number	2019XXXXXXXX
Supplier	ANNREN TECHNOLOGIES CO., LTD.

Connector information (customizable)

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 (for reference)

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	

