

Model No. : ATC6K6-220D38027-A / 220D54014-A / 220D54027-A

Product Name : 6.6KW OBC FAN

Date	Jul.13th, 2020	Version	V01	Remark	1. Model No. changed to ATC6K6-220D38027-A / 220D54014-A / 220D54027-A from AR6K6-220D380/54014/27-F-AR01
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★ Features

- 1 Charging Standard: IEC
- 2 Output Power : 6.6KW
- 3 Input Voltage : 90~264VAC
- 4 Output Range : 250~450Vdc/420~650Vdc
- 5 Dimensions : 396x244x126mm
- 6 Heat dissipation method : Fan cooling
- 7 Protection Level : IP67
- 8 Communication Method : CAN communication
- 9 Small size, light weight and stable performance
- 10 Full digital software design, redundant protection function design
- 11 Weight: ≤12KG

Applications



Electric Commercial Vehicles

Electric Commercial Vehicles

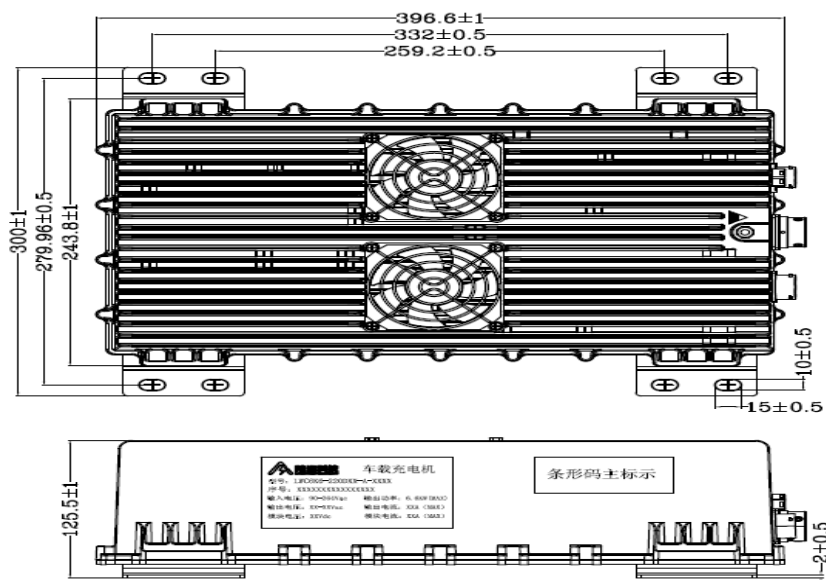
Specification

Description		Technical specifications	Remark
Environmental characteristics	Operating temperature	-40~65°C	Long-time working
	Vibration/noise	Meet the QC/T 895-2011 standard	
	Salt spray experiment	Meet the QB/T 2423.17-2008 standard	
Output Power		6.6KW max	
Input voltage range		90~264VAC	
Output voltage range		250-450VDC/420~650VDC	
Voltage accuracy		±1%	
Output maximum current		20A/14A	
Current accuracy		±3%	Half load or more
Efficiency		≥93%	Rated voltage Full load
Low voltage output		13.8Vdc/7Amax or 27Vdc/4Amax	Customizable
Other protection features		Input over-voltage, output over-voltage, over-temperature protection, over-current protection, output short-circuit protection, reverse battery protection, communication fault protection, internal fault protection	
Over temperature protection		When the temperature reaches 85°C, the output power will be halved. If the temperature is less than 80°C within 10 minutes, it will automatically recover to full load. After 10 minutes, if the temperature is greater than 80°C, it will shut down. When the temperature is greater than 90°C, it will shut down	
Dielectric strength	Output to the outer casing	2000Vdc /60S 10mA Max	
	Input to the outer casing	1500Vac /60S 10mA Max	
	Input to output	3000Vac /60S 10mA Max	
Insulation resistance	Input to output	≥20MΩ	
	Input to the outer casing	≥20MΩ	
Electromagnetic compatibility	Radiation emission	GBT 18387 : 2008 · EN 55022 CClassB	
	Conducted emission	GBT 18387 : 2008 · EN 55022 CClassB	
	Radiation immunity	GBT 18387 : 2008 · EN 55022 CClassB	
CAN byte speed		250Kbps/500Kbps	

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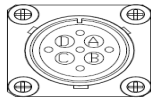
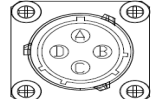
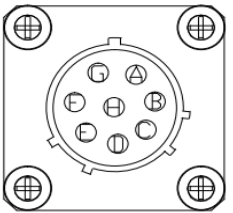
Structural parameters



Connector information (customized by customer)

Position	Socket model	Function	Brand	Plug model
A	RT00164PN03	AC input	Amphenol	RT06164SNHEC03
B	RT00144PN03	DC output	Amphenol	RT06144SNHEC03
C	RT00128PN03	Signal socket	Amphenol	RT06128SNHEC03

Interface definition

Socket definition	Pin number	Description	Remark
AC input RT00164PN03	A	L (Fire Wire)	
	B	N (zero Wire)	
	C	PE (Protected Ground)	
	D	NC	
DC output RT00144PN03	A	Output +	
	B	Interlock	
	C	Output -	
	D	Interlock	
Control terminal RT00128PN03	A	CAN-H	
	B	CP	
	C	PP	
	D	Constant battery power (12V input)	
	E	OBC-EN (Wake_up signal)	
	F	NC	
	G	CAN-L	
	H	GND	

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Label

	安仁國際股份有限公司 ANNREN TECHNOLOGIES CO., LTD.	OBC
Product Model: ATC6K6-220D38027-A		
Code: ATC6K6-220D38027-A-AR01		
Serial Number:		
Input Voltage: 90~264VAC		Output Voltage: 250-450VDC 420~650VDC
Output Current: 20A/14A		Output Power: 6.6KW

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