



80-200V 3KW DC/DC Converter Fan Model No. ATRD3K-128S27F



Features

- 1 Output Power: 3KW
- 2 Input Voltage Range(VDC): 80-200
- 3 Output Voltage Range(VDC): 0~32
- 4 Rated Output Voltage(VDC): 27
- 5 Output Current Continuous(A): 110
- 6 Output Current Max(A): 133
- 7 Dimensions(mm): 277.5 x 168 x 92.5
- 8 Weight(KG): ≤ 3.5
- 9 Cooling System: Fan
- 10 IP Rating: IP67
- 11 CAN compatibility: CAN2.0 B
- 12 Enclosure: Aluminum alloy
- 13 Isolated: Supported
- 14 Software: Digital software design
- 15 Online Upgrade & Fault Diagnosis: Supported

Specification

Description		Remark
Input Voltage Range (VDC)	80-200	
Rated Input Voltage (VDC)	128	Adjustable as per requirement
Output Voltage Range(VDC)	0-32	
Rated Output Voltage(VDC)	27	Adjustable as per requirement
Output current(A) (Continuous)	110	
Output current(A) (Max)	133	133A@6min(3.6KW)
Efficiency	$\geq 93\%$	Rated input voltage, load $> 30\%$
Output Voltage Ripple	$\leq 200\text{mVp-p}$	
Output Voltage Accuracy	$\pm 2\%$	
Communication Method	CAN 2.0 BUS	
Quiescent Current	$< 100\mu\text{A}$	Battery current will be consumed in sleep/standby mode
Isolation	supported	

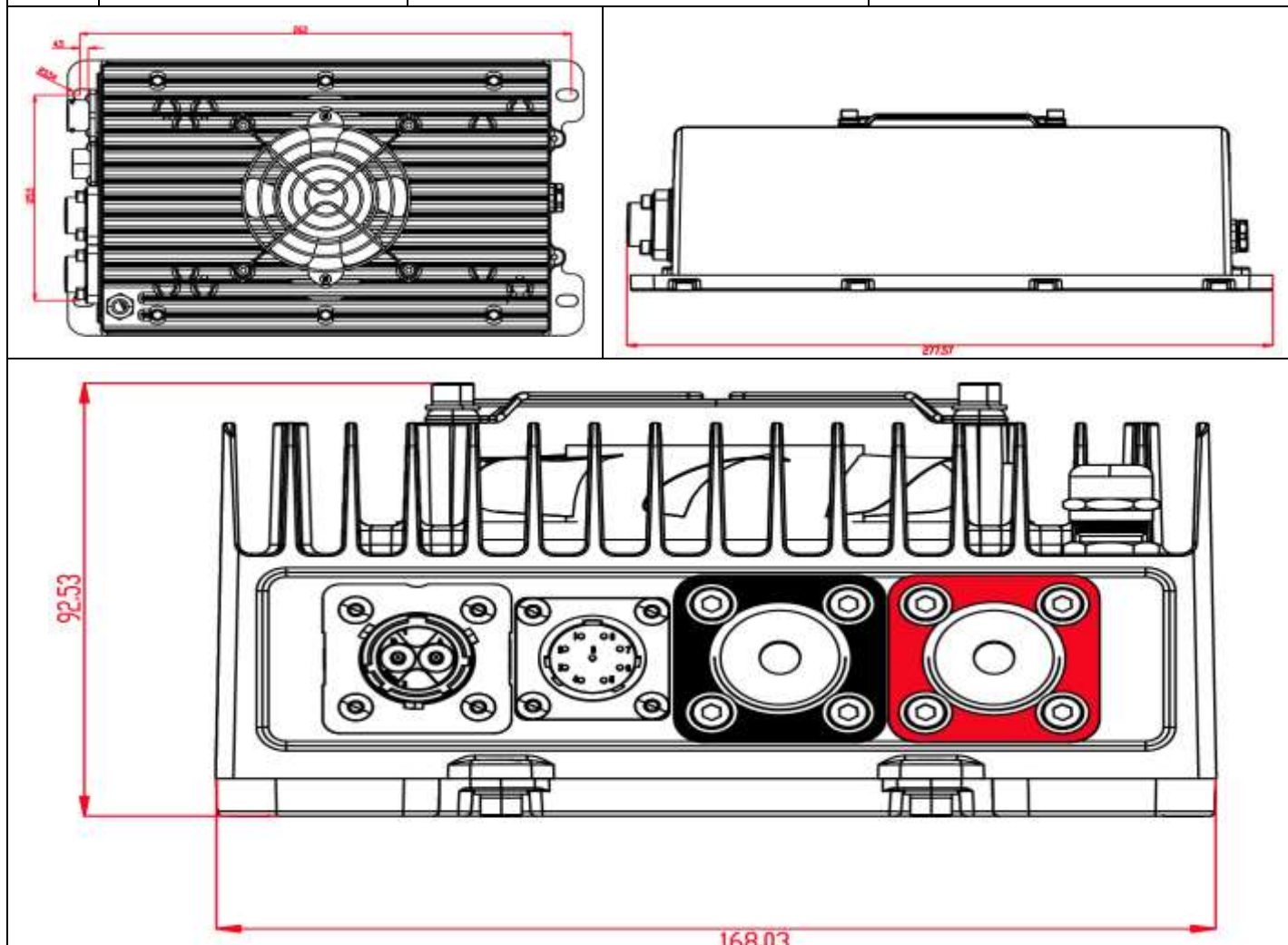
Operating Environment

The operating environment conditions of this assembly are as follows:

Items	Descriptions		Remark
1.	Operating Temperature($^{\circ}\text{C}$)	-40~85	The power will be derated when the temperature exceeds 65°C
2.	Storage Temperature($^{\circ}\text{C}$)	-40~95	
3.	relative humidity(%RH)	5~95	No condensation, no frost



4.	Protection level	IP67	
5.	Cooling method	Fan	
6.	Vibration level	ISO 16750-3,2012 (E)	After X,Y,Z three directions of sweep frequency vibration testing, no damage for parts , no loose for fastening piece
7.	Noise level(dB)	<60	
8.	Salt spray level	GB/T 2423.17	
9.	Altitude(M)Max	3000	GB/T16935.1-2008
10.	Fall	Wiring harness according to QC/T417.1-2001 Housing according to GB/T 2423.8-1995	Appearance, structure and performance are normal
11.	Protection Characteristics	Input OVP/UVF, output OVP/UVF, input anti-reverse connection, output short circuit protection, OCP, OTP	
12.	Electromagnetic immunity	GB/T17619-1998 chap4	
13.	Electromagnetic disturbance	GB18655-2002chap 12 chap14	



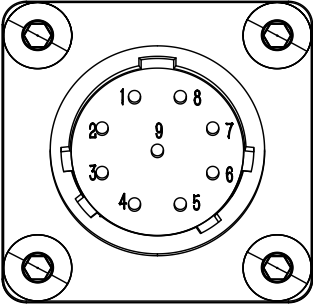
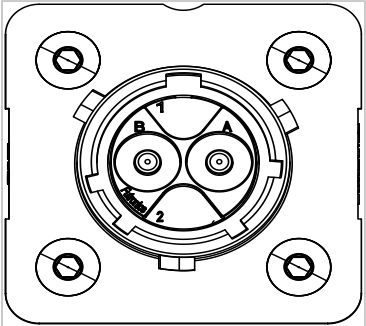
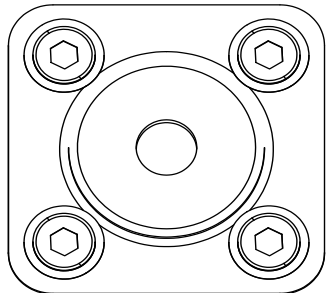


Connector Model: Adjustable as per requirement

Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	Signal control	Guangdong Weipu	WY16K9Z	WY16J9TE
2	HV DC input	Shanghai futronics	FPT20N212A2PN	FPT60N212A2SN
3	Output +		200A Terminal Post	
4	Output -			

Interface Definition

Signal Control(1)		HV DC Input(2)		Output Positive(3)	
					
1	CANH	A	Input +	Red	Output +
2	CANL				
3	12V+ Enable	B	Input -		
4	GND			Black	Output -
5	N/C				