



240-360V 1.8KW DC/DC Converter Fan Model No. ATRD1K8-307S14F



Features

- 1 Output Power: 1.8KW
- 2 Input Voltage Range(VDC): 240-360
- 3 Output Voltage Range(VDC): 0~16
- 4 Rated Output Voltage(VDC): 14
- 5 Output Current Continuous(A): 110
- 6 Dimensions(mm): 276 x 168 x 84
- 7 Weight(KG): ≤ 3.5
- 8 Cooling System: Fan
- 9 IP Rating: IP67
- 10 CAN compatibility: CAN2.0 B
- 11 Enclosure: Aluminum alloy
- 12 Isolated: Supported
- 13 Software: Digital software design
- 14 Online Upgrade & Fault Diagnosis: Supported

Specification

Description		Remark
Input Voltage Range (VDC)	240-360	
Rated Input Voltage (VDC)	307	Adjustable as per requirement
Output Voltage Range(VDC)	0-16	
Rated Output Voltage(VDC)	14 $\pm$ 0.2	Adjustable as per requirement
Output current(A) Continuous.	110	
Output current(A) Max.	150	150A@30sec(2.1KW)
Efficiency	$\geq 92\%$	Rated input voltage, load $> 30\%$
Output Voltage Ripple	$\leq 200\text{mVp-p}$	
Output Voltage Accuracy	$\pm 1\%$	
Communication Method	ISO 11898-2	
Quiescent Current	$< 100 \mu\text{A}$	Battery current will be consumed in sleep/standby mode
Isolation	supported	

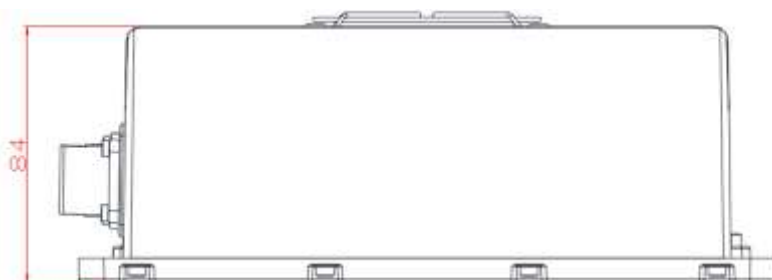
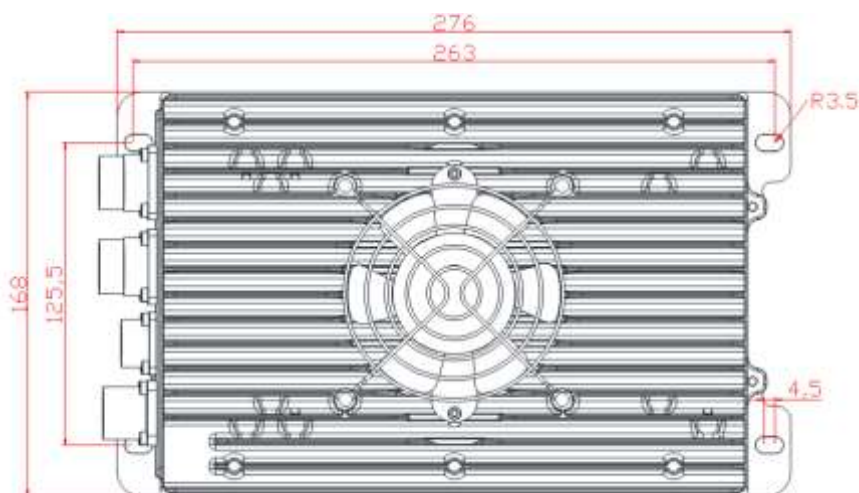
Operating Environment

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: we use Recodeal connectors