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240-360V1.5KW DC/DC Converter Fan
Model No. ATRD1K5-307S14F

Features

1 Output Power: 1.5KW
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 Output Current Max(A): 150
7 Dimensions(mm): 277 x 165 x 94
8 Weight(KG): ≤ 2.5
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)	240-360	
Rated Input Voltage (VDC)	307	Adjustable as per requirement
Output Voltage Range)VDC)	0-16	
Rated Output Voltage(VDC)	14±0.2	Adjustable as per requirement
Output current(A) (Continuous)	110	
Output current(A) Max.	150	150A@30sec(2.1KW)
Efficiency	≥95%	Rated input voltage, load＞30%
Output Voltage Ripple	≤ 200mVp-p	
Output Voltage Accuracy	±1%	
Communication Method	CAN 2.0 BUS	
Quiescent Current	<100μA	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(℃)	-40~85	The power will be derated when the temperature exceeds 65℃
2.	Storage Temperature(℃)	-40~105	

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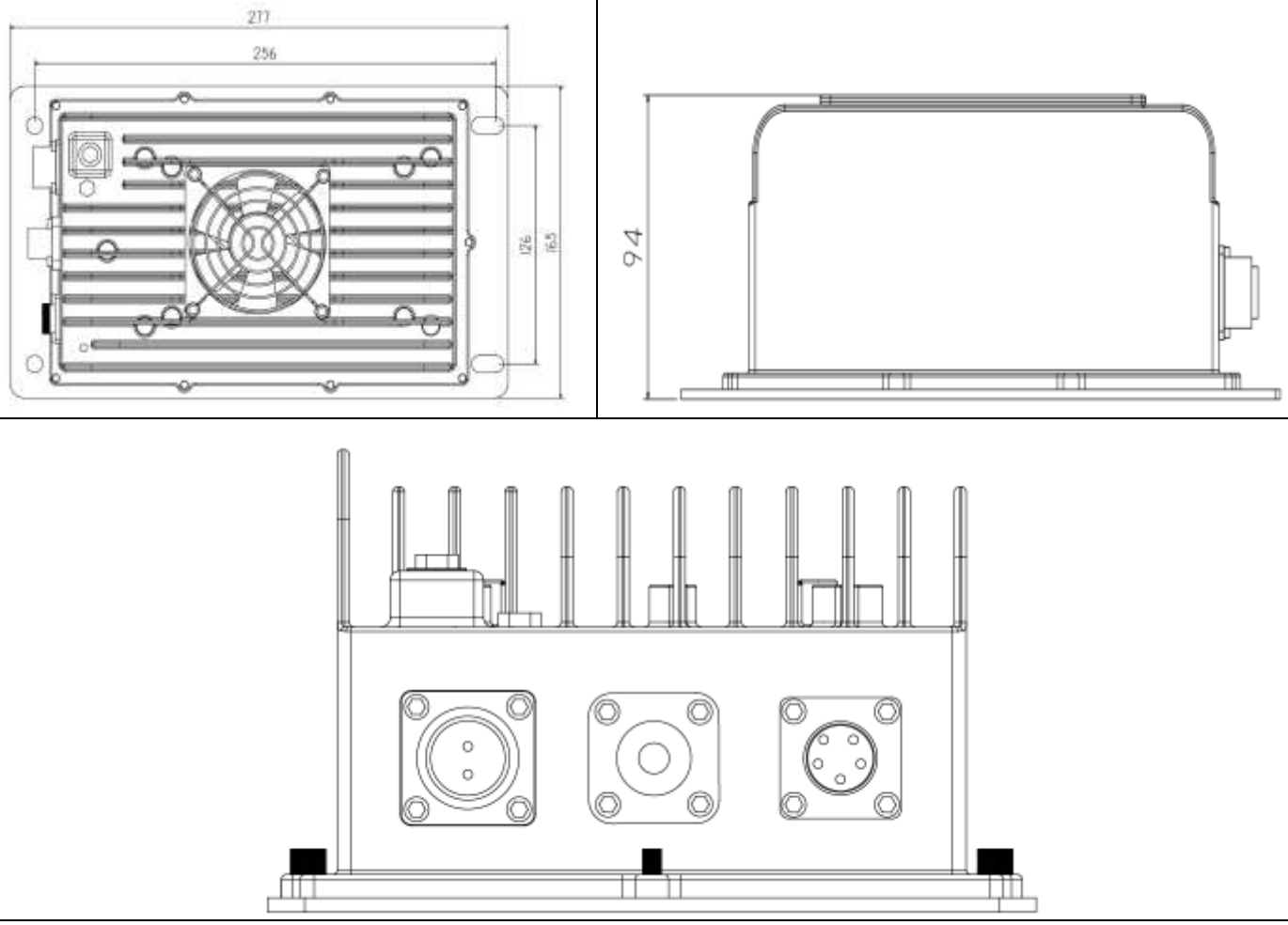
3.	relative humidity(%RH)	5～95	No condensation, no frost
4.	Protection level	IP67	
5.	Cooling method	Fan	
6.	Vibration level	ISO 16750-3,2012（E）	After X,Y,Z three directions of sweep frequency vibration testing, no damage for parts , no loose for fastening piece
7.	Noise level(dB)	<60	
8.	Salt spray 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/UVP, output OVP/UVP, input anti-reverse connection, output short circuit protection, OCP, OTP	
12.	Electromagnetic immunity	GB/T17619-1998 chap4	
13.	Electromagnetic disturbance	GB18655-2002chap 12 chap14	



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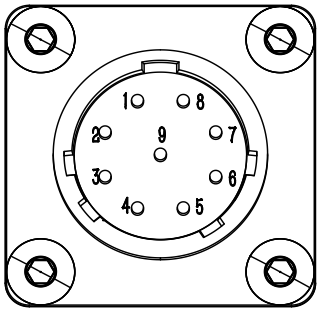
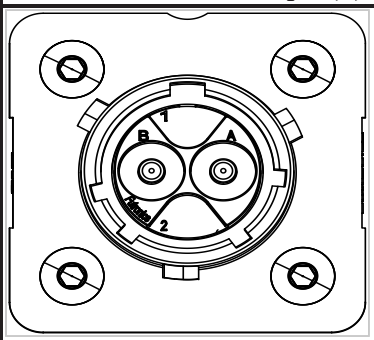
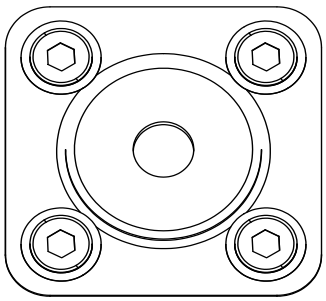
Connector Model: Adjustable as per requirement

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				

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