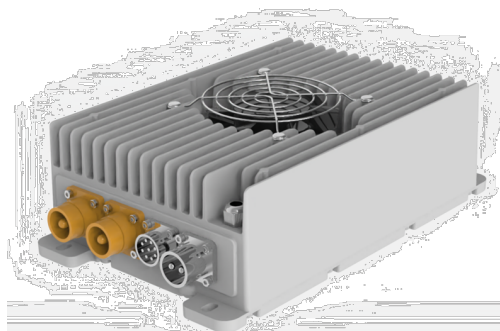




200-500VS14 2.5KW DC/DC Converter Fan Cooled Model No. ATRD2K5-360S14F



Features

- 1 Output Power: 2.5KW
- 2 Input Voltage Range(VDC): 200-500
- 3 Output Voltage Range(VDC): 0~16
- 4 Rated Output Voltage(VDC): 14
- 5 Output Current Range(A): 0-178
- 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 Pre-charge & isolated: Supported
- 13 Software: Digital software design
- 14 Online Upgrade & Fault Diagnosis: Supported

Specification

Description		Remark
Input Voltage Range (VDC)	200-500	
Rated Input Voltage (VDC)	360	Adjustable as per requirement
Output Voltage Range(VDC)	0-16	
Rated Output Voltage(VDC)	14	Adjustable as per requirement
Output current(A) Max.	178	
Efficiency	$\geq 92\%$	Rated input voltage, load $> 30\%$
Output Voltage Ripple	$\leq 500\text{mV}_{\text{PK-PK}}$	
Output Voltage Accuracy	$\pm 1\%$	
Communication Method	CAN-BUS J1939	
Quiescent Current	$\leq 2\text{mA}$	Battery current will be consumed in sleep/standby mode
Pre charge	embedded	

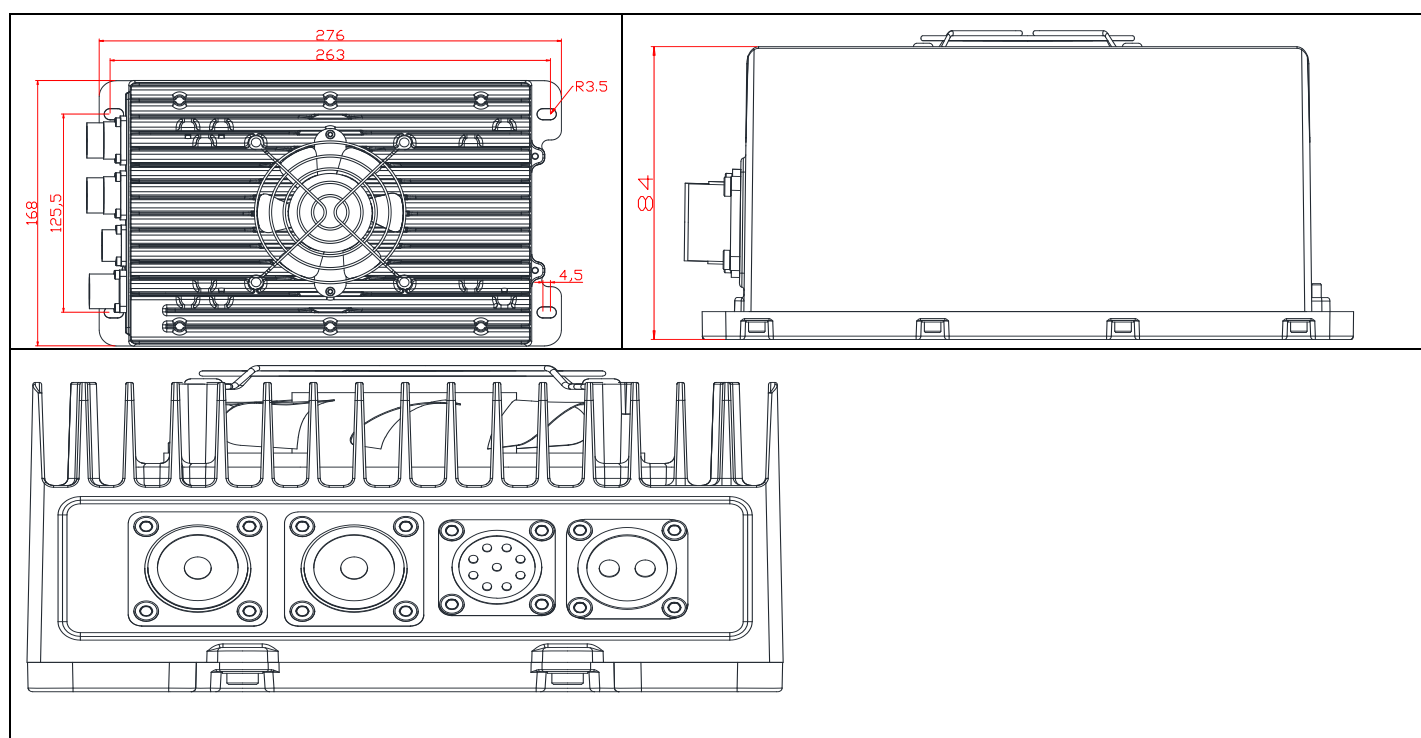
Operating Environment

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)	65	Meet QC /T895-2011
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/UVFP, output OVP/UVFP, input anti-reverse connection, output short circuit protection, OCP, OTP	
12.	Electromagnetic immunity	GB/T17619-1998 chap4	
13.	Electromagnetic disturbance	GB18655-2002chap 12 chap14	



3D file No.: 902.26000200.00



Connector Model: Adjustable as per requirement

Position	Function	Brand	Socket Model	Plug Model
1	Signal control			
2	HV DC input			
3	Output +			
4	Output -			

Interface Definition

Signal Control(1)		HV DC Input(2)		Output Positive(3)	
1		A	Input +	A	Output +
2	KL15				
3-6	NC(RESERVE)	B	Input -	B	Output -
7	CAN H				
8	CAN L				