



Input DC 450~750V Output 28V 10KW DC/DC Converter Liquid Cooled
Model No. ATRD10K-600S28W

**Features**

- 1 Output Power(KW): 10
- 2 Input Voltage Range(VDC): 450-750
Rated Input Voltage(VDC): 600
- 3 Output Voltage Range(VDC): 0-32
- 4 Rated Output Voltage(VDC): 28
- 5 Output Current Range(A): 0~380
- 6 Output Current Max(A): 357
- 7 Dimensions(mm): 550x396x100
- 8 Weight(KG): ≤ 25
- 9 Cooling System: Liquid, flow rate ≥12L/min
- 10 IP Rating: IP67
- 11 Communication: CAN2.0 B SAE J1939
- 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)	450-750	as per requirement
Rated Input Voltage (VDC)	600	as per requirement
Output Voltage Range(VDC)	0-32	
Rated Output Voltage(VDC)	28	as per requirement
Efficiency	≥92%	Rated input voltage, load > 30%
Output Voltage Accuracy	±1%	
Communication Method	CAN 2.0 BUS	

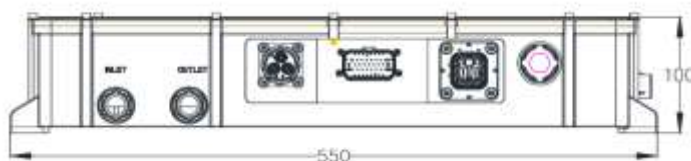
Operating Environment

The operating environment conditions of this assembly are as follows:

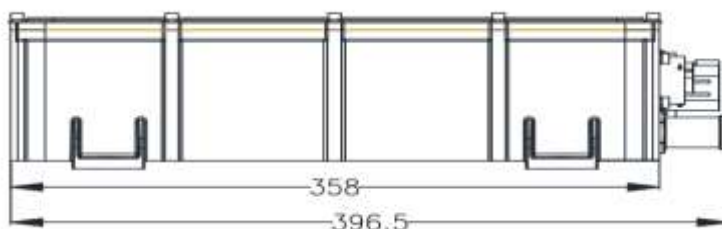
Items	Descriptions		Remark
1.	Operating Temperature(°C)	-40~85	The power will be derated when the temperature exceeds 65°C
2.	Storage Temperature(°C)	-40~95	
3.	relative humidity(%RH)	5~95	No condensation, no frost



4.	Protection level	IP67	
5.	Cooling method	Liquid	
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	



The connector section is for reference only
Type to be TBD.





2 Define Connectors and Connection Terminals

2.2 Connectors Definition

Overview				
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