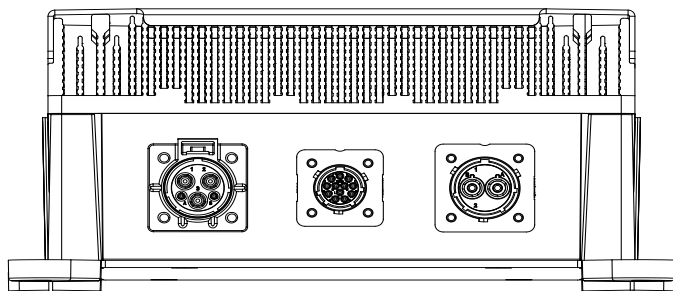




10~60V in 350V out 10KW DC/DC Converter Bidirectional Fan Model No. ATRDB10K-55S350F



Features

- 1 Output Power(KW): 10
- 2 Input Voltage Range(VDC): 10-60
Rated Input Voltage(VDC): 55
- 3 Output Voltage Range(VDC): 0-450
- 4 Rated Output Voltage(VDC): 350
- 5 Output Current Continuous(A): 28
- 6 Output Current Max(A): 31
- 7 Dimensions(mm): 302x211x113
- 8 Weight(KG):10.5±0.3
- 9 Cooling System: Fan
- 10 IP Rating: IP67
- 11 CAN compatibility: CAN2.0 B
- 12 Enclosure: Aluminum alloy
- 13 Isolated: Non Supported
- 14 Software: Digital software design
- 15 Online Upgrade & Fault Diagnosis: Supported

Specification

Description		Remark
Input Voltage Range (VDC)	10~60	
Rated Input Voltage (VDC)	55	as per requirement
Output Voltage Range(VDC)	0~450	
Rated Output Voltage(VDC)	350	as per requirement
Output current(A) (Continuous)	28	
Output current(A) (Max)	31	
Efficiency	≥97%	Rated input voltage, load > 30%
Output Voltage Accuracy	±1%	
Communication Method	CAN 2.0 BUS	
Isolation	Non supported	

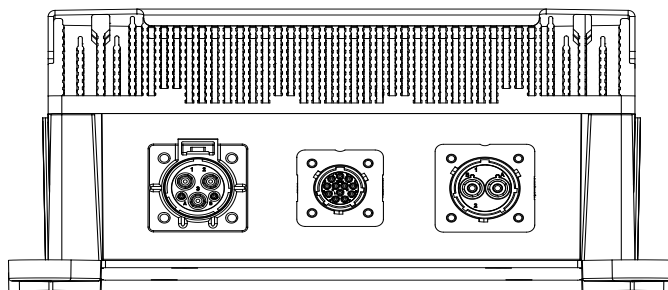
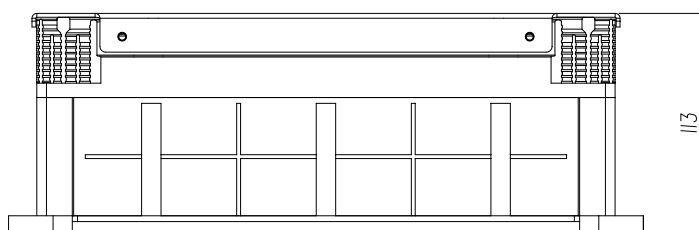
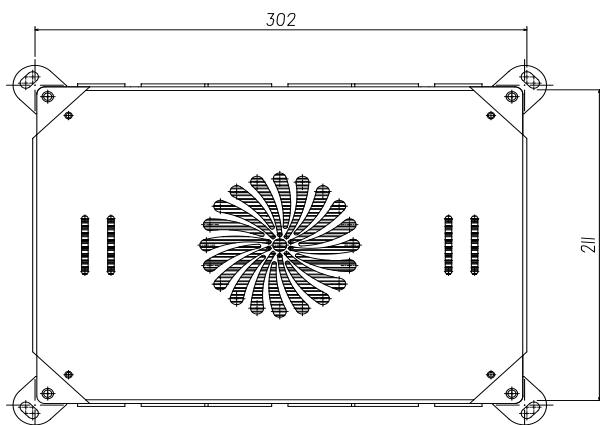
Operating Environment

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	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	



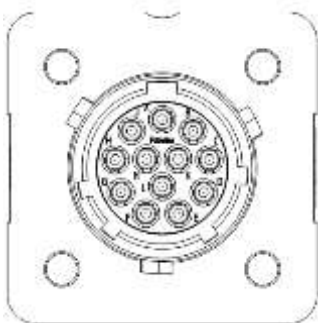
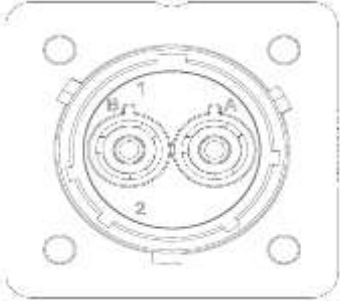
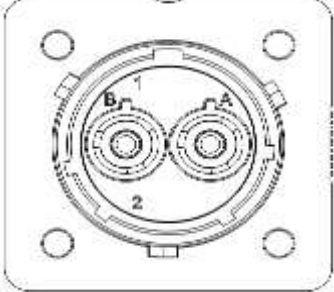


Connector Model: Adjustable as per requirement

Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	Signal control	Shanghai Futronics	FPT20N21212APN	FPT60021212ASN
2	HV DC input		FPT20N222A2PN-M6	FPT63N222A2SN-16S
3	Output +		FPT20N222A2PW-M6	FPT63N222A2SW-16S
4	Output -			

Interface Definition

Signal Control(1)		HV DC Input(2)		Output Positive(3)	
					
A	CANH	A	Input +	A	Output +
B	CANL				
C	12V+ Enable	B	Input -	B	Output -