



3KW DC/DC Converter-Fan Model No. ATD3K-640S27-A



Features

- 1 Output Power: 3KW
- 2 Input Voltage: 400~900VDC
- 3 Output Voltage: 27.5VDC
- 4 Dimensions: 262x180x120mm
- 5 Weight: ≤5KG
- 6 Cooling System: Fan
- 7 Protection Level: IP67
- 8 Communication Method: CAN-BUS
- 9 Enclosure: Aluminum alloy
- 10 Software: Digital software design
- 11 Online Upgrade & Fault Diagnosis: Supported

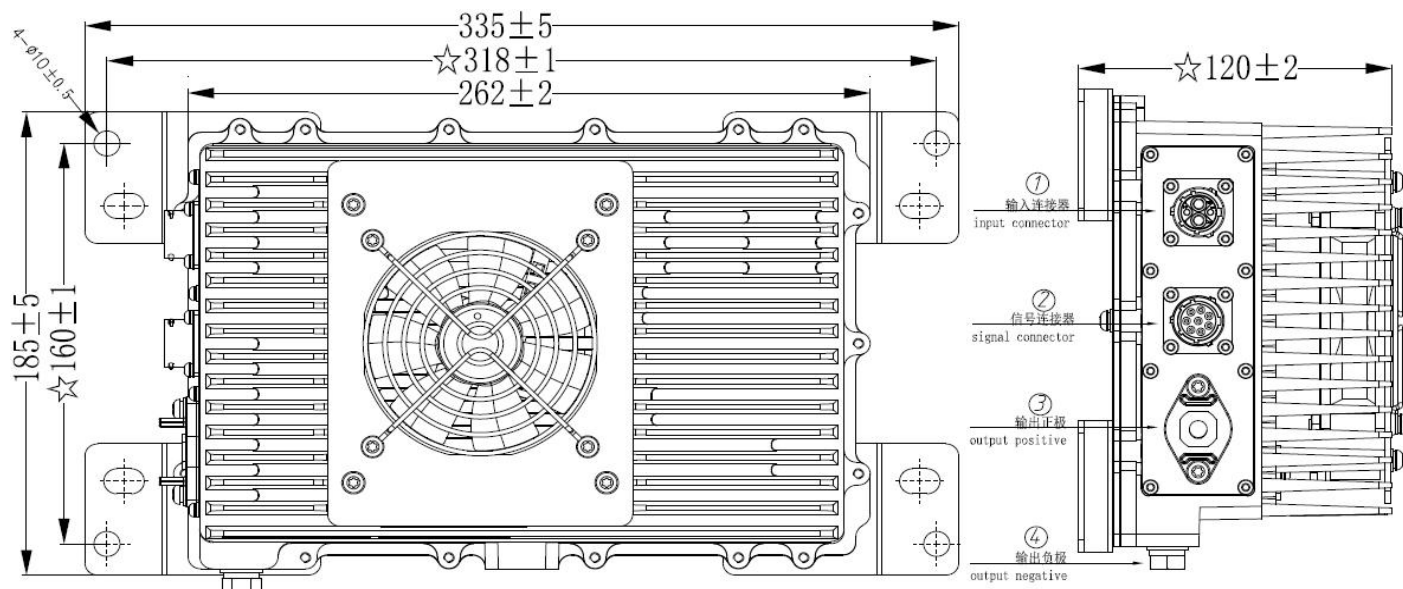
Specification

Description	Technical Specification	Remark
Operating Temperature	-40~85°C	Coolant inlet temperature
Rated Output Power	3KW	Peak power: 3.6KW
Input Voltage Range	400~900VDC	
Rated Output Voltage	27.5VDC	Adjustable
Rated Output Current	110A	
Auxiliary Voltage Range	9~32VDC	VCC
Efficiency	≥95%	Rated voltage, specific load
Output Voltage Ripple	≤500mV _{PK-PK}	
Output Voltage Accuracy	±1%	
Wakeup Method	KL15(hardwire)	
Communication Method	CAN-BUS	
Quiescent Current	≤2mA	Battery current will be consumed in sleep/standby mode
Protection Characteristics	Input OVP/UVLP, output OVP/UVLP, input anti-reverse connection, output short circuit protection, OCP, OTP	
EMC	GB/T 18655-2010	



3KW DC/DC Converter-Fan Model No. ATD3K-640S27-A

Structural Parameters (unit : mm)



Connector Model

Position	Function	Brand	Socket Model	Plug Model
1	HV DC input	Amphenol	RT00122PN03	RT06122SNHEC03
2	Signal control	Amphenol	RT00128PN03	RT06128SNHEC03
3	Output +	Gvtong	GH01-F200-1ANB-T21	M8 Screw
4	Output -	/	M8 Bolt	M8 Screw

Interface Definition

HV DC Input(1)		Signal Control(2)		Output Positive(3)	
A	Input +	A	VCC + (connect to power supply)	+	Output +
B	Input -	B	CANL		
1	HVIL 1	C	CANH		
2	HVIL 2	D	CAN-		
		E	GND		
		F	NC		
		G	NC		
		H	Enable		