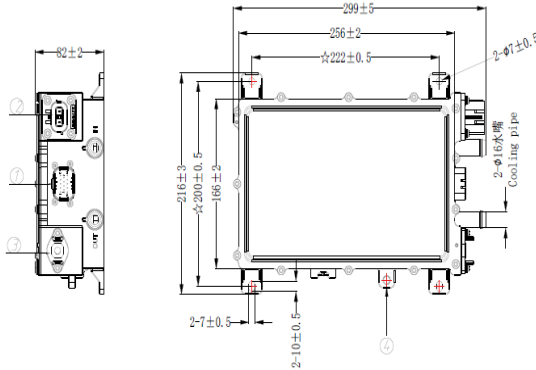




Model No. : 4-ATD3K-540S27-W

Product Name : 3KW DC/DC Converter-Liquid

Part Number	Protocol No.	Approval No.	Customer Name	Signature/Stamp/Date
bu21.4.atd3k-540s27-w	AT5IE			



Features

1. Rated Output Power : 3KW
2. Input Voltage : 400~750Vdc
3. Output Voltage : 27.5VDC
4. Dimensions : 256x166x82mm
5. Cooling System : Liquid, flow rate $\geq 12\text{L/min}$
6. Protection Level : IP67
7. Communication Method : CAN-BUS
VCC connect to (battery +), EN connect with ON KL15(position)
8. Enclosure: Aluminum alloy made
9. Software: Digital software design
10. Byte Order: INTEL
11. Frame format: Extended ID
12. CAN Boud rate: 500Kpbs
13. DCDC without interlock function
14. DCDC activation method: CAN
15. CAN bus matrix: File name_CAN software version: ARD3K-540S27-W-DCDC_CAN protocol-V1.2 (500KB Intel Extended) _20220510

Specification

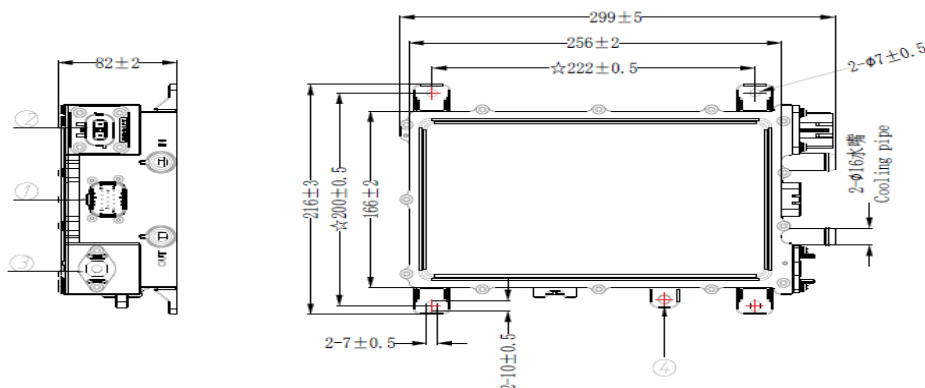
Description	Technical specifications	Remark
Operating temperature	-40~85°C	Coolant inlet temperature
Rated output power	3KW	Peak Power 3.6KW
Input voltage range	400~750VDC	
Output rated voltage	27.5VDC	adjustable
Rated output current	110A	
Auxiliary power	9~32VDC	VCC, Low Voltage Battery
Efficiency	$\geq 95\%$	Rated voltage
Output voltage ripple	$\leq 500\text{mV}_{\text{PK-PK}}$	
Output voltage accuracy	$\pm 1\%$	
Wake-up method by HV DC Inout or Hard Wire	hard wire, Enable	
Communication method	CAN-BUS	
Quiescent Current	$\leq 2\text{mA}$	Consume battery current in sleep/stop state
Protection characteristics	Input over and under voltage, output over and under voltage, input anti-reverse connection, output over current and short circuit protection, over temperature protection	
EMC characteristics	GB/T 18655-2010	
Dimensions	256x166x82mm	
Cooling System	Liquid cooling , flow rate $\geq 6\text{L/min}$	
Protection Level	IP67	
Weight	$\leq 3.5\text{KG}$	





Model No. : 4-ATD3K-540S27-W
Product Name : 3KW DC/DC Converter-Liquid

Structural parameters (unit : mm)



Connector model

Position	Function	Brand	Socket model	Plug model
1	Signal Control	Guoweitong	GVT03-RS013-14-L02	GE01-P008-14NNB-Y01
2	HV input	Amphenol	HVSL282022FND	HVSL282062F104IND
3	Output +	Guoweitong	GH17-F200-1NNB	M8 bolt with copper lug
4	Output -	/	(M8 Screw Hole on chassis)	M8 bolt with copper lug

Interface definition

Signal Control(1)		DC HV input(2)		Output positive③	
1	CAN H	1	Input +	+	Output +
2	CAN L	2	Input -		
3	Enable (K15)	A	NC(HVIL_IN)		
4	VCC+ (24V battery positive)	B	NC(HVIL_OUT)		
5	GND				
6	NC(HVIL_IN)				
7	NC(HVIL_OUT)				
8-14	NC				

Labels of product

Label on DCDC	
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