



Model No. : 8-ATD6K-540S27-W

Product Name : 6KW DC/DC Converter-Liquid

Part Number	Protocol No.	Approval No.	Customer Name	Date
bu21.8.atd6k-540s27-w	AT5ME			



Features

1. Output Power : 6KW
2. Input Voltage : 400~750Vdc
3. Output Voltage : 27.5VDC
4. Dimensions : 326x211x83mm
5. Cooling System : Liquid, flow rate \geq 12L/min
6. Protection Level : IP67
7. Communication Method : CAN-BUS
VCC connect to KL30 (battery +), key connect with KL15(ignition)
8. Enclosure: Aluminum alloy made
9. Software: Digital software design
10. Byte Order: Motorola
11. Frame format: Extended
12. CAN Boud rate: 500Kpbs

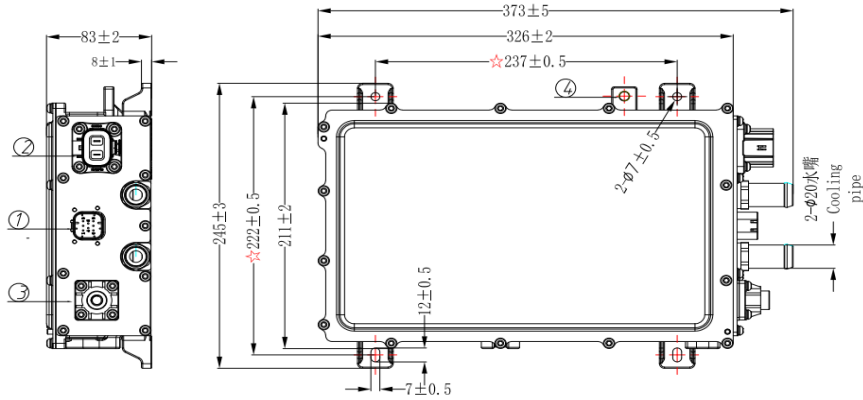
Specification

Description	Technical specifications	Remark
Operating temperature	-40~85°C	Coolant inlet temperature
Rated output power	6KW	
Input voltage range	400~750VDC	
Output rated voltage	27.5VDC	adjustable
Rated output current	218A	
Auxiliary power	9~32VDC	VCC
Efficiency	\geq 95%	Rated voltage
Output voltage ripple	\leq 500mV _{PK-PK}	
Output voltage accuracy	\pm 1%	
Wake-up method	hard wire	
Communication method	CAN-BUS	
Quiescent Current	\leq 2mA	Consume battery current in sleep/stop state
Protection characteristics	Input OVP/UVF, output OVP/UVF,OTP, input reverse protection, output short circuit protection, OCP, OTP	
EMC characteristics	GB/T 18655-2010	
Dimensions	326x211x83mm	
Cooling System	Liquid cooling , flow rate \geq 12L/min	
Protection Level	IP67	
Weight	\leq 5KG	



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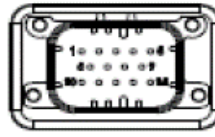
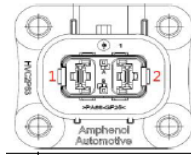
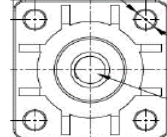
Structural parameters (unit : mm)



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	HVC2P63MV406	HVC2P63FS406
3	Output +	Guoweitong	GH0-C300-1NNB-H001	M8 Bolt
4	Output -	/	(M8 Screw on chassis)	M8 Bolt

Interface definition

Signal Control(A)		HV input(B)		Output positive⊕	
					
1	CAN H	1	Input +	+	Output +
2	CAN L	2	Input -		
3	KEY (KL15,ignition On)	A	HVIL_IN		
4	VCC+ (KL30 ,12V or 24V battery positive)	B	HVIL_OUT		
5	GND				
6	HVIL_IN				
7	HVIL_OUT				
8	CAN2 H				
9	CAN2 L				
10-14	NC				

