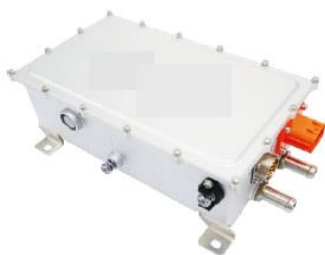




Model No. : ATD6K-540S27-W
Product Name : 6KW DC/DC Converter-Liquid



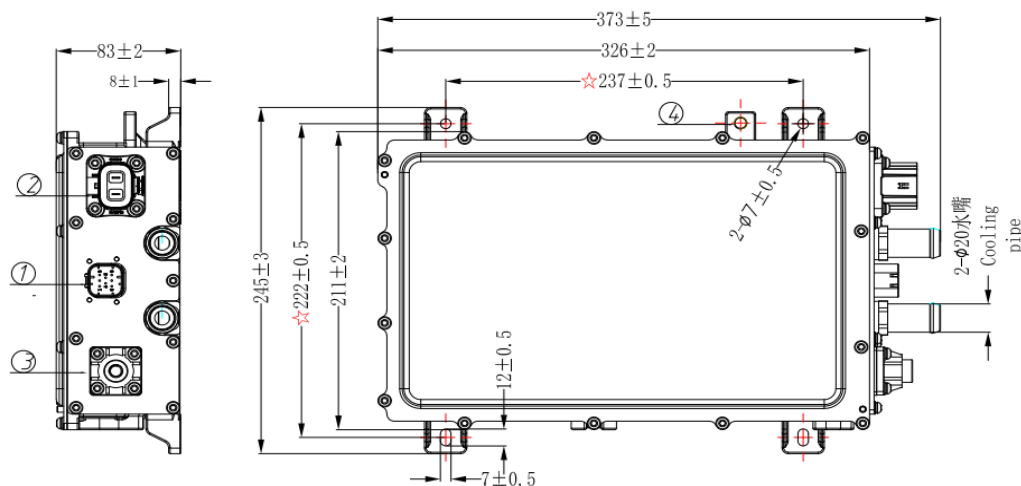
Features

- 1 Output Power : 6KW
- 2 Input Voltage : 400~750Vdc
- 3 Output Voltage : 27.5VDC
- 4 Dimensions : 326x211x83mm
- 5 Cooling System : Liquid, flow rate $\geq 12\text{L/min}$
- 6 Protection Level : IP67
- 7 Communication Method : CAN-BUS
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design

Specification

Description	Technical specifications	Remark
Operating temperature	-40~85°C	Coolant inlet temperature
Rated output power	6KW	Peak: 6.6KW, ≤ 6 mins
Input voltage range	400~750VDC	
Output rated voltage	27.5VDC	20~30V presettable
Rated output current	218A	
Auxiliary power	9~32VDC	VCC
Efficiency	$\geq 94\%$	Conditionally, will provide test result by request
Output voltage ripple	$\leq 500\text{mV}_{\text{PK-PK}}$	
Output voltage accuracy	$\pm 1\%$	
Wake-up method	CAN、KL15、High Voltage DC input	
Communication method	CAN-BUS	
Quiescent Current	$\leq 2\text{mA}$	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 $\geq 12\text{L/min}$	$\leq 30\text{ L/min}$, suggested
Protection Level	IP67	
Weight	$\leq 5\text{KG}$	

Structural parameters (unit : mm)





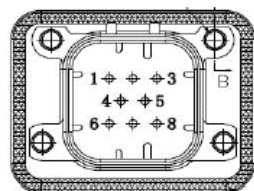
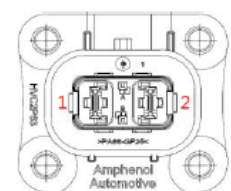
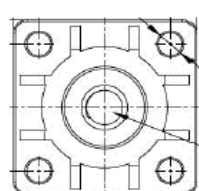
Model No. : ATD6K-540S27-W

Product Name : 6KW DC/DC Converter-Liquid

Connector model

Position	Function	Brand	Socket model	Plug model
1	Signal Control	Guoweitong	GVT03-RS013-8-L02	GE01-P008-8NNB
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©	
					
A	CANH	1	Input +	+	Output +
B	CANL	2	Input -		
C	KEY (KL15,ignition On)	A	HVIL_IN		
D	VCC+ (KL30 ,12V or 24V battery positive)	B	HVIL_OUT		
E	GND				
F	HVIL_IN				
G	HVIL_OUT				
H	NC				

