



Model No. : ATD6K-540S27-M
Product Name : 6KW DC/DC Converter Module



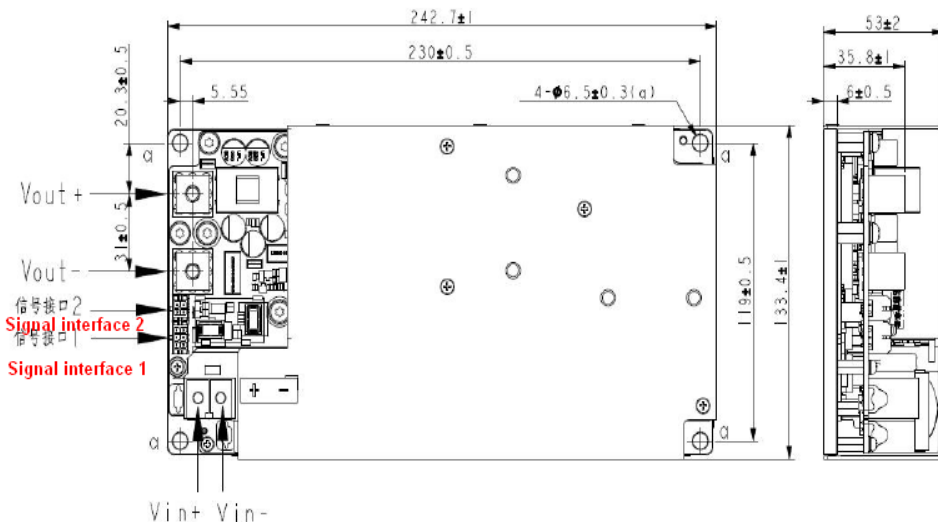
Features

- 1 Output Power : 6KW
- 2 Input Voltage : 400~750VDC
- 3 Output Voltage : 27.5VDC
- 4 Dimensions : 242x133x53mm
- 5 Cooling System :
bottom plate conduction heat dissipation
- 6 Communication Method : CAN-BUS

Specification

Description	Technical specifications	Remark
Operating temperature	-40~85°C	Bottom plate temperature
Rated output power	6KW	
Input voltage range	400~750VDC	
Output rated voltage	27.5VDC	Adjustable
Rated output current	218A	
Auxiliary power VCC	9~32VDC	VCC
Efficiency	≥95%	Rated voltage
Output voltage ripple	≤500mV _{PK-PK}	
Output voltage accuracy	±1%	
Wake-up method	CAN · hard wire	
Communication method	CAN-BUS	
Quiescent Current	≤3mA	Consume battery current in sleep/stop state
Protection characteristics	Input OVP/UVP, output OVP/UVP,OTP, input reverse protection, output short circuit protection, OCP, OTP	
EMC characteristics	GB/T 18655-2010	
Dimensions	242x133x53mm	
Cooling System	bottom plate conduction heat dissipation	
Weight	≤2.5KG	

Structural parameters

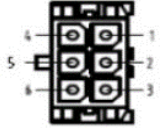




Connector model

Position	Function	Brand	Socket model	Plug model
A	Signal Control 1	MOLEX	43045-0612	43025-0600
B	Signal Control 2	MOLEX	43045-0412	43025-0400
C	Input	/	M4 terminal	M6 screw
D	Output	/	M6 copper pillar	M6 screw

Interface definition

Brand	Model number	Description		Picture
MOLEX	43045-0612	PIN1	VCC+	
		PIN2	Hardwire enable	
		PIN3	GND	
		PIN4	CAN-GNC	
		PIN5	CAN-H	
		PIN6	CAN-L	
/	HV input	Input +	IN +	2.5mm2 wire is recommended
		Input -	IN -	
/	HV output	Output +	OUT +	50mm2 wire is recommended
		Output -	OUT -	

