



6KW DC/DC Converter-Module Model No. ATD6K-640S27-M



Features

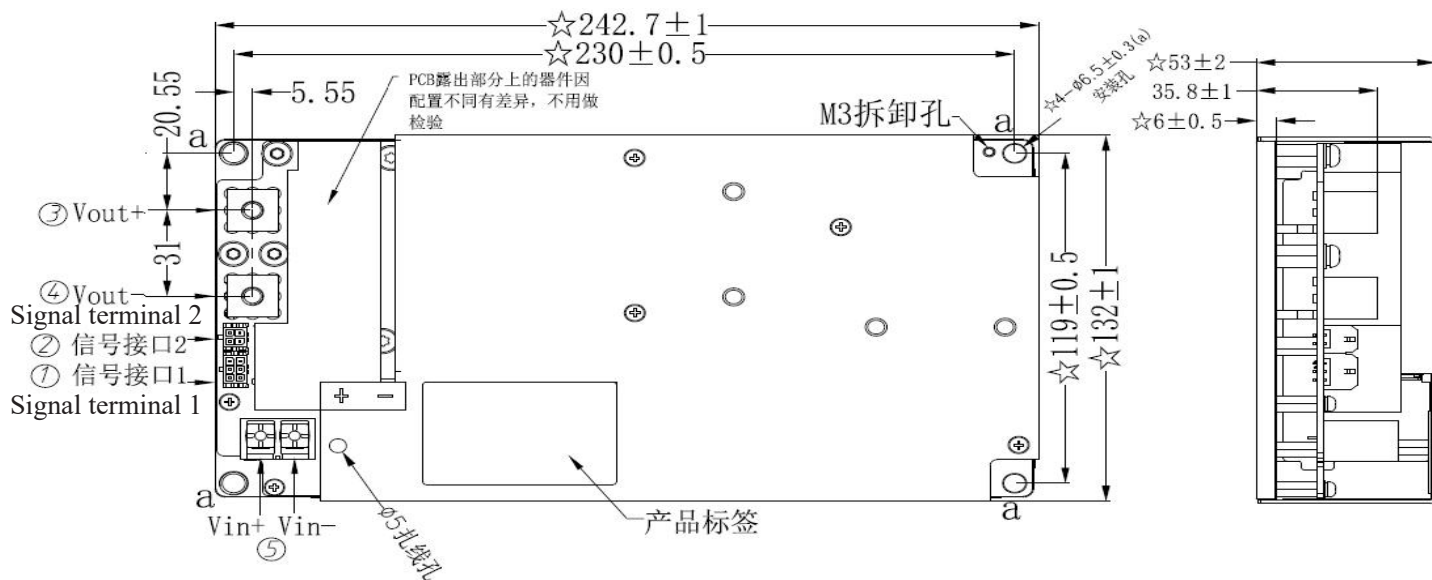
- 1 Output Power: 6KW
- 2 Input Voltage: 400~920VDC
- 3 Output Voltage: 27.5VDC
- 4 Dimensions: 242x132x53mm
- 5 Weight: ≤ 2.5 KG
- 6 Cooling Method: Heat sink attached for external cooling system
- 7 Communication Method: CAN BUS
- 8 Enclosure: N/A
- 9 Software: Digital software design

Specification

Description	Technical Specification	Remark
Operating Temperature	-40~85°C	Bottom plate temperature
Rated Output Power	6KW	Peak power: 6.5KW
Input Voltage Range	400~920VDC	
Rated Output Voltage	27.5VDC	Adjustable
Rated Output Current	218A	
Auxiliary Voltage Range	9~32VDC	VCC
Efficiency	$\geq 95\%$	Rated voltage, specific load
Output Voltage Ripple	≤ 500 mV _{PK-PK}	
Output Voltage Accuracy	$\pm 1\%$	
Wakeup Method	CAN, hard wire (EN)	
Communication Method	CAN-BUS	
Quiescent Current	≤ 2 mA	Battery current consumed in sleep/standby mode
Protection Characteristics	Input OVP/UVP, output OVP/UVP, input anti-reverse protection, output short circuit protection, OCP, OTP	
EMC	GB/T 18655-2010	Achieve class 3, with specific EMI filter and enclosure
Installation instructions	Need apply specific thermal grease (contact AT for details).	

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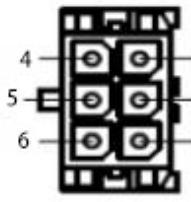
Structural Parameters (unit : mm)



Connector Model

Function	Brand	Socket Model	Plug Model
Signal terminal 1	MOLEX	43045-0612	43025-0600
Signal terminal 2	MOLEX	43045-0412	43025-0400
Input	/	M4 Terminal Block	M4 Screw
Output	/	M6 Copper pillar	M6 Screw

Interface Definition

Brand	Model	Description		Remark
MOLEX	43045-0612	PIN1	VCC +	
		PIN2	EN	
		PIN3	GND	
		PIN4	CAN-GND	
		PIN5	CAN-H	
		PIN6	CAN-L	
/	M4 Binding post	Input +	IN +	2.5mm ² wire recommended
		Input -	IN -	
/	M5 Copper pillar	Output +	OUT +	2.5mm ² wire recommended
		Output -	OUT -	