



Model No. : ATD2K5-540S14-M
Product Name : 2.5KW DC/DC Converter Module



2.5KW DC/DC Converter Module

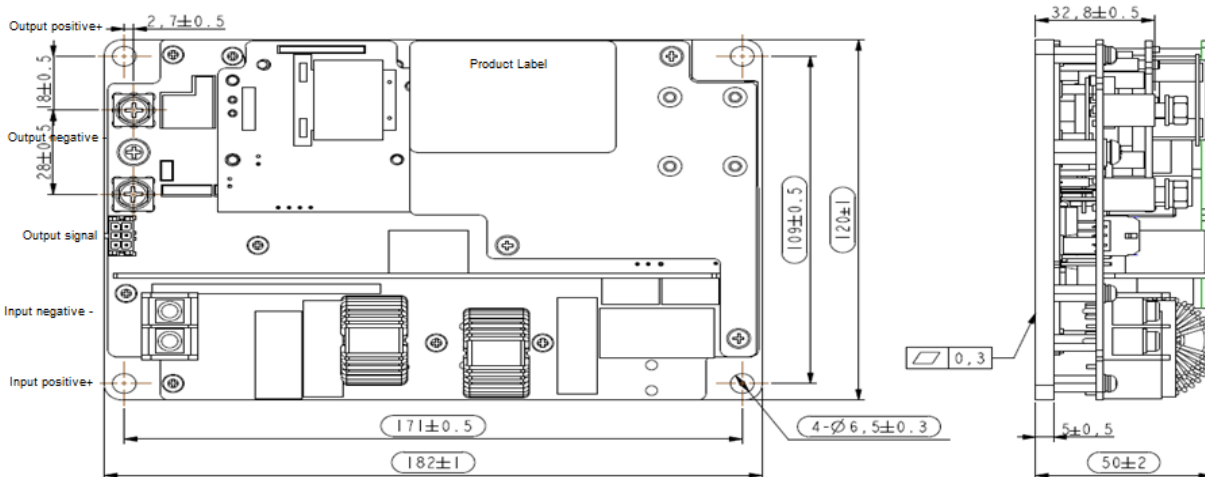
★ Features

- 1 Output Power : 2.5KW
- 2 Input Voltage : 400~750VDC
- 3 Output rated voltage : 13.8VDC
- 4 Dimensions : 180X120X52mm
- 5 Cooling System : Module
- 6 Communication Method : CAN
- 7 Weight: ≤1.6KG

Specification

Description	Technical specifications	Remark
Rated output power	2.5KW	Peak power 2.8KW
Input voltage range	400~750VDC	
Output rated voltage	13.8VDC	Adjustable voltage
Rated output current	181A	
External Auxiliary power VCC	9-18VDC	VCC
Efficiency	>95%	Rated voltage
Output voltage ripple	≤500mV _{PK-PK}	
Output voltage accuracy	± 1%	
Wake up method	CAN, hard wire, high voltage	
Communication method	CAN-BUS	
Quiescent Current	≤2mA	The battery current is consumed in the 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	GB/T 18655-2010	
Operating temperature	-40~85°C	
Dimensions	180x120x52mm	
Packaging method	Modular	
Cooling method	Heat sink on the bottom plate	
Weight	≤1.6KG	
CAN byte speed	250Kbps or 500Kbps	

Structural parameters

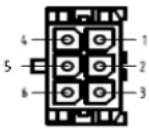


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Connector information

Function	Maker	Receptacle model	Plug model
Control terminal	MOLEX	43045-0612	43025-0600
Input	/	M4 binding post	M4 screw
Output	/	M5 copper pillar	M5 screw

Pinout definition

Maker	Model	Description		Remark
MOLEX	43045-0612	PIN1	VCC+	
		PIN2	Hardwire enable	
		PIN3	GND	
		PIN4	CAN-GND	
		PIN5	CAN-H	
		PIN6	CAN-L	
/	High voltage input	Input positive	IN +	It is recommended to use 2.5mm ² wire
		Input negative	IN -	
/	Low voltage output	output positive	OUT +	It is recommended to use 2.5mm ² wire
		output negative	OUT -	

Label

