

Model No. : ATD1K5-380S14-M  
Product Name : 1.5KW DC/DC Converter Module



1.5KW DC/DC Converter Module

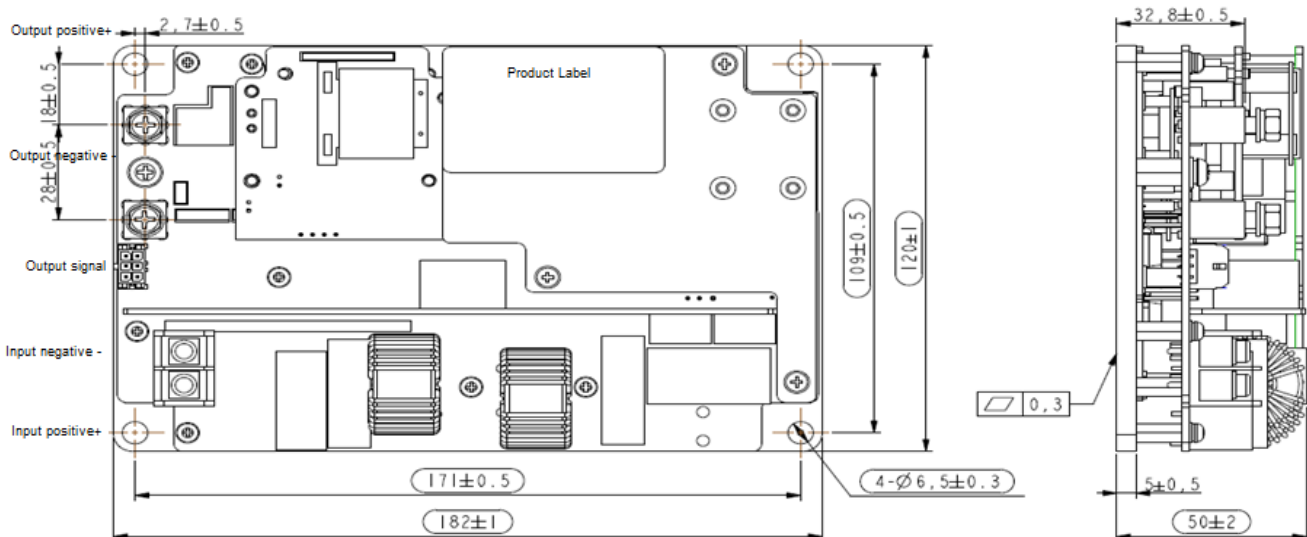
★ Features

- 1 Output Power : 1.5KW
- 2 Input Voltage : 250~450VDC
- 3 Output rated voltage : 13.8VDC
- 4 Dimensions : 180X120X50mm
- 5 Cooling System : Module
- 6 Communication Method : CAN
- 7 Weight:  $\leq 1.6$ KG

Specification

Description	Technical specifications	Remark
Rated output power	1.5KW	Peak power 1.8KW
Input voltage range	250~450VDC	
Output rated voltage	13.8VDC	Adjustable voltage
Rated output current	109A	
External Auxiliary power VCC	9-18VDC	VCC
Efficiency	$>95\%$	Rated voltage
Output voltage ripple	$\leq 500$ mV <sub>PK-PK</sub>	
Output voltage accuracy	$\pm 1\%$	
Wake up method	CAN, hard wire, high voltage	
Communication method	CAN-BUS	
Quiescent Current	$\leq 2$ mA	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	180x120x50mm	
Packaging method	Modular	
Cooling method	Heat sink on the bottom plate	
Weight	$\leq 1.6$ KG	
CAN byte speed	250Kbps or 500Kbps	

Structural parameters



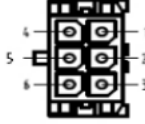


Model No. : ATD1K5-380S14-M  
Product Name : 1.5KW DC/DC Converter Module

### 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	
/	M4 binding post	Input positive	IN +	It is recommended to use 2.5mm <sup>2</sup> wire
/		Input negative	IN -	
/	M5 copper pillar	output positive	OUT +	It is recommended to use 2.5mm <sup>2</sup> wire
/		output negative	OUT -	