

Model No. : ATD2K-380S14-M
Product Name : 2KW DC/DC Converter Module

Date	Jul.16th, 2020	Version	V01	Remark	Model No. changed to ATD2K-380S14-M from AR2K-2502380S14M
------	----------------	---------	-----	--------	---



2KW DC/DC Converter Module

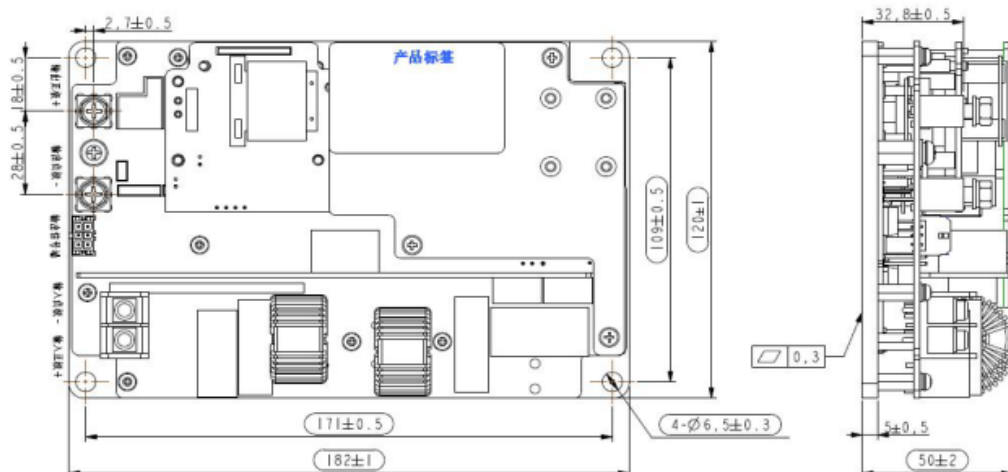
Features

- 1 Output Power : 2KW
- 2 Input Voltage : 250-450VDC
- 3 Output Voltage : 13.8VDC
- 4 Dimensions : 180X120X52mm
- 5 Cooling System : Module
- 6 Communication Method : CAN-BUS
- 7 Weight: $\leq 1.6\text{KG}$

Specification

Description	Technical specifications	Remark
Rated output power	2KW	Peak power 2.4KW
Input voltage range	250-450VDC	
Rated output voltage	13.8VDC	Adjustable voltage
Rated output current	145A	
Auxiliary power VCC	9-18VDC	VCC
Efficiency	$\geq 95\%$	Rated voltage
Output voltage ripple	$\leq 500\text{mV}_{\text{PK-PK}}$	
Output voltage accuracy	$\pm 1\%$	
Wake up method	CAN, hard wire, high voltage	
Communication method	CAN-BUS	
Quiescent Current	$\leq 2\text{mA}$	Battery current consumption during sleep/stop
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	
Electromagnetic compatibility characteristics	GB/T 18655-2010	
Operating temperature	-40~85°C	
Dimensions	180x120x52mm	
Packaging method	Modular	
Cooling method	Heat sink attached to bottom plate	
Weight	$\leq 1.6\text{KG}$	
CAN byte speed	250Kbps/500Kbps	

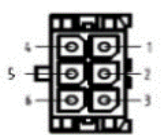
Structural parameters



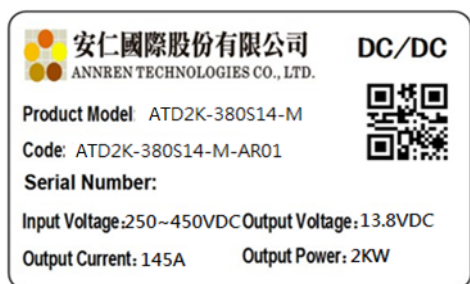
Model No. : ATD2K-380S14-M
 Product Name : 2KW DC/DC Converter Module

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

Maker	Model	Description		Remark
MOLEX	43045-0612	PIN1	VCC+	Control (Receptacle) 
		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 ² wire
		Input negative	IN -	
/	M5 copper pillar	output positive	OUT +	It is recommended to use 2.5mm ² wire
		output negative	OUT -	

Label



Package information

Carton size	180x120x52 (mm)
Weight (KG)	1.6KG

