



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



Features

- 1 Output Power: 2KW
- 2 Input Voltage: 250~450VDC
- 3 Output Voltage: 13.8VDC
- 4 Dimensions: 180x120x50mm
- 5 Weight: ≤ 1.6 KG
- 6 Cooling Method: Heat sink attached to bottom plate
- 7 Communication Method: CAN-BUS
- 8 Enclosure: N/A
- 9 Software: Digital software design

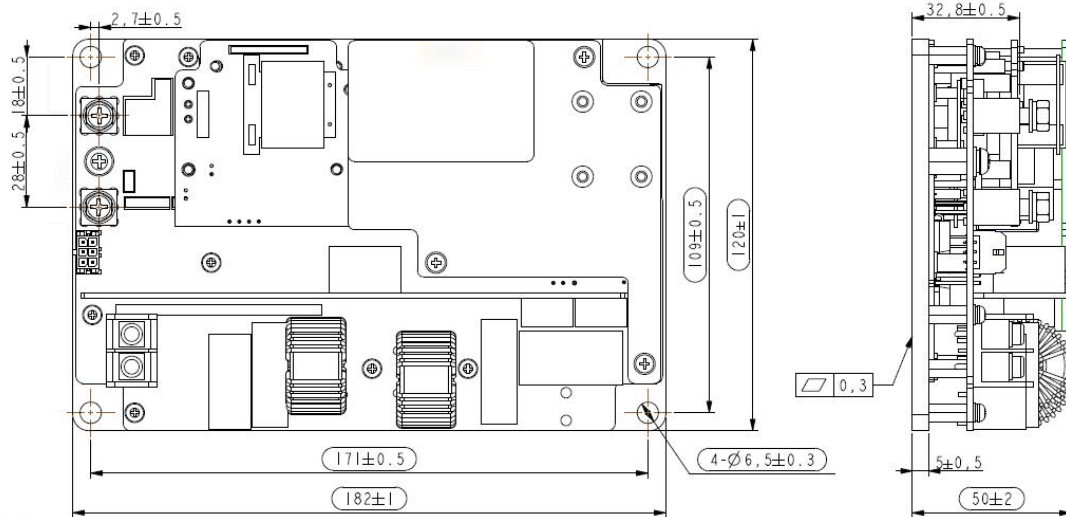
Specification

Description	Technical Specification	Remark
Operating Temperature	-40~85°C	Bottom plate temperature
Rated Output Power	2KW	Peak power: 2.4KW
Input Voltage Range	250~450VDC	
Rated Output Voltage	13.8VDC	Adjustable
Rated Output Current	145A	
Auxiliary Voltage Range	9~18VDC	VCC
Efficiency	$\geq 95\%$	Rated voltage
Output Voltage Ripple	≤ 500 mV _{PK-PK}	
Output Voltage Accuracy	$\pm 1\%$	
Wakeup Method	CAN, hard wire, high voltage	
Communication Method	CAN-BUS	
Quiescent Current	≤ 2 mA	Battery current will be 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 Class 3	



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Structural Parameters (unit : mm)



Connector Model

Function	Brand	Socket Model	Plug Model
Control terminal	MOLEX	43045-0612	43025-0600
Input	/	M4 Binding post	M4 Screw
Output	/	M5 Copper pillar	M5 Screw

Interface Definition

Brand	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 +	IN +	2.5mm ² wire recommended
/		Input -	IN -	
/	M5 Copper pillar	Output +	OUT +	2.5mm ² wire recommended
/		Output -	OUT -	