MDN 4000-6000W

MDN4000-6000W Series DC DC Isolated Converters Modules



特性 Features

- 超高电压输入 Ultra-high voltage input
- 大功率，风扇冷却 High power, fan cooling
- 高效率，高可靠性，长寿命设计 High efficiency, high reliability, long service life design
- CAN通讯 CAN communication
- 各种保护功能 Various protection functions

条件：除特殊指定外，所有参数测试条件为：室温25°C,标称输入电压，纯阻性标称负载
Condition: All specifications are tested under the room temperature 25°C, Normal input voltage and pure resistive normal load.

输入特性 Input Characteristic

360VDC（额定值）	280-500 VDC
560VDC（额定值）	350-750 VDC
580VDC（额定值）	400-850 VDC
850VDC（额定值）	600-1100 VDC
1200VDC（额定值）	900-1500 VDC

输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	± 2%
电压调整率(主路) (Line Regulation<main>)	± 0.5%
负载调整率(主路) (Load Regulation<main>)	± 0.5%
电流限制点 (Output Current Limiting)	大于输出电流额定值0.5-1A

输出电流 (Output Current)	15-210A 任选（For option）
输出电压 (Output Voltage)	14-400V 任选（For option）
功率 (Power)	4000-6000W

一般特性 General Characteristic

绝缘电阻 (Isolation Resistance)	50MΩ		环境特性 (Environmental Characteristics)	工作壳温 (Case Temperature)	（工业品）Industry -40 – +50°C
绝缘强度 (Isolation Voltage)	输入-输出 (Input-Output)	>3000VDC		存储温度 (Storage Temperature)	（工业品）Industry -45 – +105°C
	输入-外壳 (Input-Case)	>2000VDC			
	输出-外壳 (Output-Case)	>500VDC			

保护特性 General Characteristic

- ★ 输入欠压保护(Input under voltage protection)
- ★ 输入过压保护(Input over voltage protection)
- ★ 过温保护(Over temperature protection)
- ★ 输出过流保护(Output over current protection)
- ★ 输出短路保护(Output short circuit protection)

	输入电压(Vdc) Input voltage	输入电压范围（Vdc） Input voltage Range	输出电压（Vdc） Output voltage	输出电流（A） Output current(A)	纹波PK-PK（mv） Ripple and noise	效率(Typ) Efficiency(Typ)	型号 Models
单路 Single Channels Output	360	280-500	14	210	300	92%	MDN3000-360S14
			27.5	145	300	92%	MDN4000-360S27.5
			48	83.3	400	93%	MDN4000-360S48
			58	68.9	400	93%	MDN4000-360S58
			72	55.5	500	92%	MDN4000-360S72
			96	62.5	300	93%	MDN6000-360S96
			144	41.6	300	93%	MDN6000-360S114
			200	30	400	93%	MDN6000-360S200
			300	20	600	93%	MDN6000-360S300
			400	15	600	93%	MDN6000-360S400
	560	350-750	14	210	300	92%	MDN3000-560S14
			27.5	145	300	92%	MDN4000-560S27.5
			48	83.3	400	93%	MDN4000-560S48
			58	68.9	400	93%	MDN4000-560S58
			72	55.5	500	92%	MDN4000-560S72
			96	62.5	300	93%	MDN6000-560S96
			144	41.6	300	93%	MDN6000-560S114
			200	30	400	93%	MDN6000-560S200
			300	20	600	93%	MDN6000-560S300
			400	15	600	93%	MDN6000-560S400
	580	400-850	14	210	300	92%	MDN3000-580S14
			27.5	145	300	92%	MDN4000-580S27.5
			48	83.3	400	93%	MDN4000-580S48
			58	68.9	400	93%	MDN4000-580S58
			72	55.5	500	92%	MDN4000-580S72
			96	62.5	300	93%	MDN6000-580S96
			144	41.6	300	93%	MDN6000-580S114
			200	30	400	93%	MDN6000-580S200
			300	20	600	93%	MDN6000-580S300
			400	15	600	93%	MDN6000-580S400
	850	600-1100	14	210	300	92%	MDN3000-850S14
			27.5	145	300	92%	MDN4000-850S27.5
			48	83.3	400	93%	MDN4000-850S48
			58	68.9	400	93%	MDN4000-850S58
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			300	20	600	93%	MDN6000-850S300
			400	15	600	93%	MDN6000-850S400
	1200	900-1500	14	210	300	92%	MDN3000-1200S14
			27.5	145	300	92%	MDN4000-1200S27.5
			48	83.3	400	93%	MDN4000-1200S48
			58	68.9	400	93%	MDN4000-1200S58
			72	55.5	500	92%	MDN4000-1200S72
			96	62.5	300	93%	MDN6000-1200S96
			144	41.6	300	93%	MDN6000-1200S114
			200	30	400	93%	MDN6000-1200S200
			300	20	600	93%	MDN6000-1200S300
			400	15	600	93%	MDN6000-1200S400

外形尺寸以及引脚定义 Mechanical drawing and pin definition

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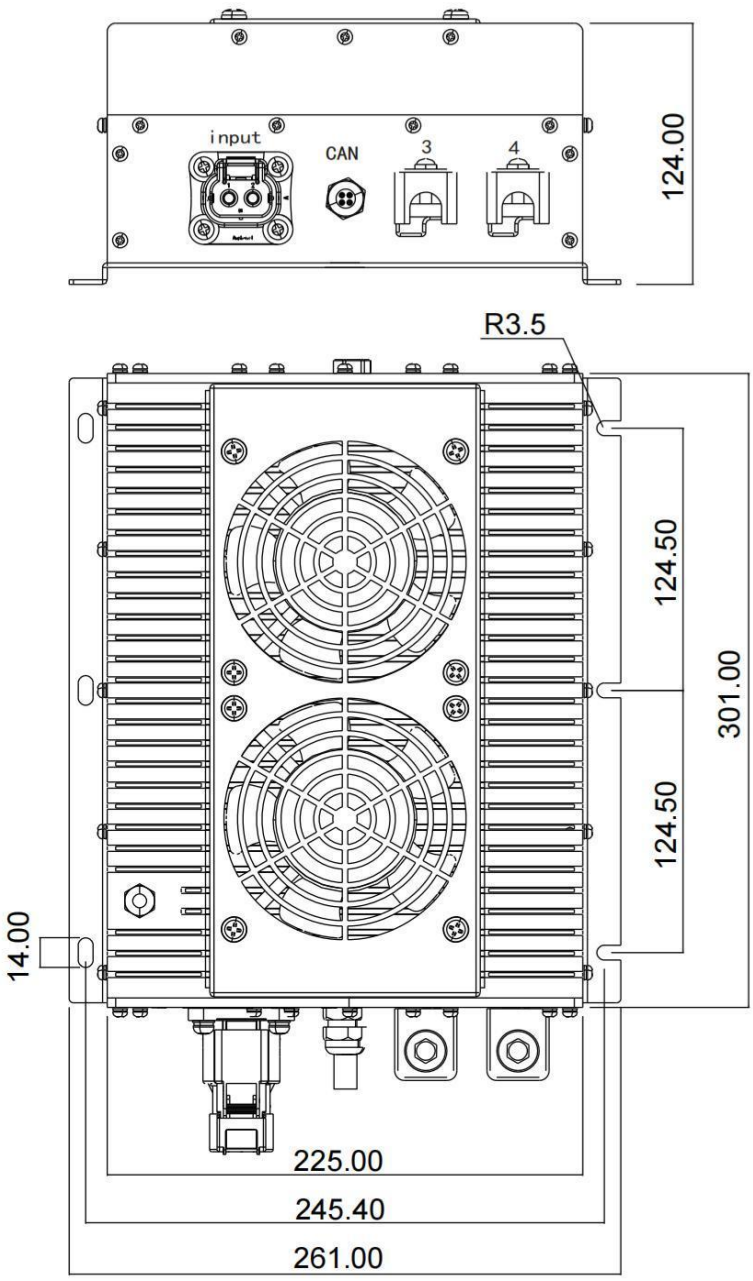

单位(Unit):mm

定义 DEF	引脚 PIN	单路 SING
输入 input	1(红)	+Vin
	2(黑)	-Vin
输出 output	3(黑)	-VO
	4(红)	+VO
辅助源 auxiliary source	1	24+
	2	24-
CAN	3	CANH
	4	CANL