XDB 100-150W

XDB 100-150W New Energy Batteries Power Series
DC-DC Isolated Converters



特性 Features

- 快速动态响应 Fast dynamic response
- 散热良好，外观美观 Good heat dissipation with beautiful appearance
- 高效率 High efficiency
- 自然冷却附加散热器可用 Natural cooling addtional radiator available;
- 高压和低压输入可选 High and low voltage inputs selectable
- 外形设计美观 Attractive outline design
- 支持恒压恒流充电 Can be charged with constant voltage and current

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

额定值 (Rated)	电压范围 (Voltage Range)	额定值 (Rated)	电压范围 (Voltage Range)
12 VDC (额定值 Rated)	9-18 VDC	48 VDC (额定值 Rated)	36-72 VDC
24 VDC (额定值 Rated)	18-36 VDC	110 VDC (额定值 Rated)	66-154 VDC

输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	± 0.2%
电压调整率(主路) (Line Regulation<main>)	± 0.5%
负载调整率(主路) (Load Regulation<main>)	± 0.4%
温度变化率 (rate of change of temperature)	±0.01%/°C
电流限制点 (Output Current Limiting)	120%(Typ)

输出电流 (Output Current)	2-30A
输出电压 (Output Voltage)	5-48VDC
功率 (Power)	100-150W
响应速度 (response time)	400μs

一般特性 General Characteristic

工作频率 (Switching Frequency)	160-200KHz		环境特性 (Environmental Characteristics)	工作壳温 (Case Temperature)	(工业品) Industry -25 – +85°C (军I) Military I -40 – +85°C (军II) Military II -55 – +85°C
绝缘电阻 (Isolation Resistance)	200MΩ				
MTBF	> 500000 h				
绝缘强度 (Isolation Voltage)	输入-输出 (Input-Output)	>1500VDC		存储温度 (Storage Temperature)	(工业品) Industry -45 – +105°C (军I) Military I -55 – +105°C
	输入-外壳 (Input-Case)	>1050VDC			
	输出-外壳 (Output-Case)	>500 VDC			

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)

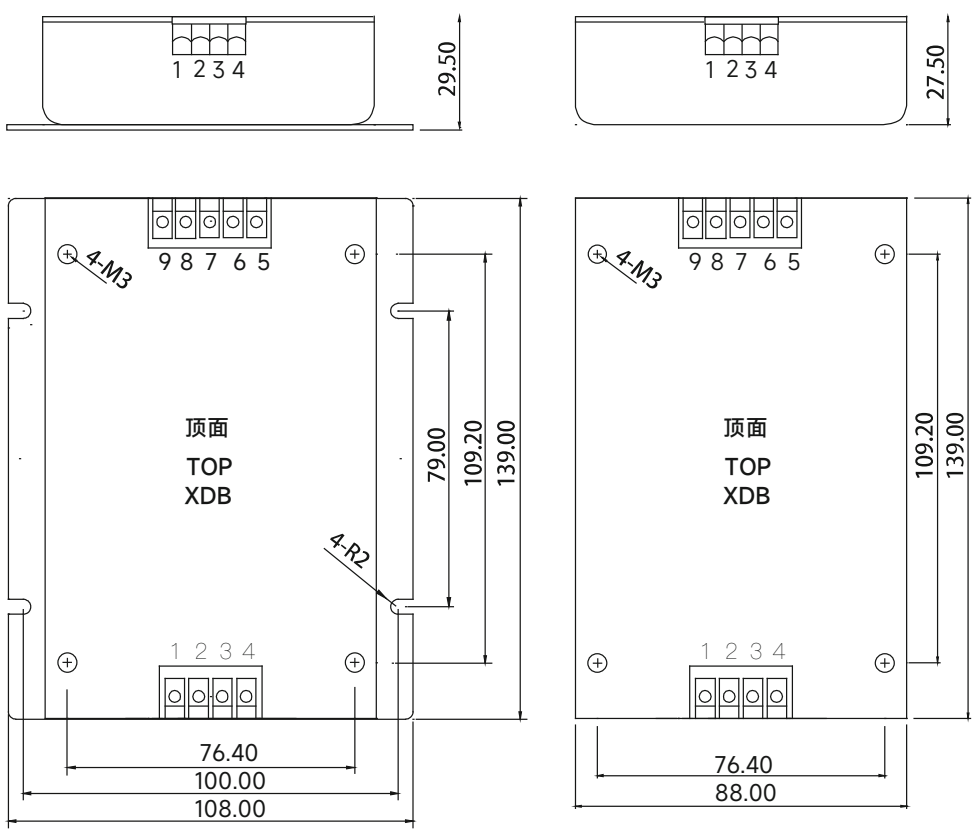
★ 输出短路保护(Output short circuit protection)

	输入电压(Vdc) Input voltage	输入电压范围 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	12	9-18	05	20	50	82%	XDB100-12S05
	12	9-18	12	8.33	120	82%	XDB100-12S12
	12	9-18	13.8	10.87	120	82%	XDB150-12S13.8
	24	18-36	05	20	50	85%	XDB100-24S05
	24	18-36	12	12.5	120	82%	XDB150-24S12
	24	18-36	15	10	150	83%	XDB150-24S15
	48	36-72	05	20	50	85%	XDB100-48S05
	48	36-72	12	12.5	120	86%	XDB150-48S12

■说明1：输出纹波噪声（峰值-峰值）采用的是87-88页附录四模块电源测试说明
Output ripple noise (Peak-Peak) is adopted the module power supply test instruction on the page 87-88.

■说明2：仅列出典型型号，其它型号，请确定功率、输入电压及输出电压，致电我公司 400-019-3997
Only typical models listed. If you need other model, please conform the power, input voltage and output voltage, then phone us +86 400-019-3997

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



单位(Unit)：mm

引脚 PIN	单路 SING	输入≥48V SING	双路 DOU
1	-Vin	Gr.	-Vin
2	-Vin	-Vin	-Vin
3	+Vin	NC	+Vin
4	+Vin	+Vin	+Vin
5	TRIM	NC	NC
6	+Vo	+Vo	+Vo1
7	+Vo	+Vo	-Vo1
8	-Vo	-Vo	+Vo2
9	-Vo	-Vo	-Vo2

注：马蹄板安装型号加尾缀M