XDB 100-300W

XDB 100-300W New Energy Batteries Power Series
DC-DC Isolated Converters



特性 Features

- 输入II型滤波 II type input filter
- 2倍，4倍电压输入 2X，4X voltage input
- 输出短路保护 Output short circuit protection
- 安装方便，单端出线 Easy installation ,single side pin out
- 最佳壳体连接方式 Best case attaching mode
- 高可靠性，长寿命设计 Design for high reliability,long lifetime
- 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)
12 VDC (额定值 Rated)	9-18 VDC
24 VDC (额定值 Rated)	18-36 VDC
48 VDC (额定值 Rated)	36-72 VDC

四倍输入	
18 VDC (额定值 Rated)	9-36 VDC

输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	± 1%
电压调整率(主路) (Line Regulation<main>)	± 0.2%
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)	0-16.7A
输出电压 (Output Voltage)	5-48VDC
功率 (Power)	100-300W
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			存储温度 (Storage Temperature)	(工业品) Industry -45 – +105°C (军I) Military I -55 – +105°C
绝缘强度 (Isolation Voltage)	输入-输出 (Input-Output)	>1500VDC			
	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)

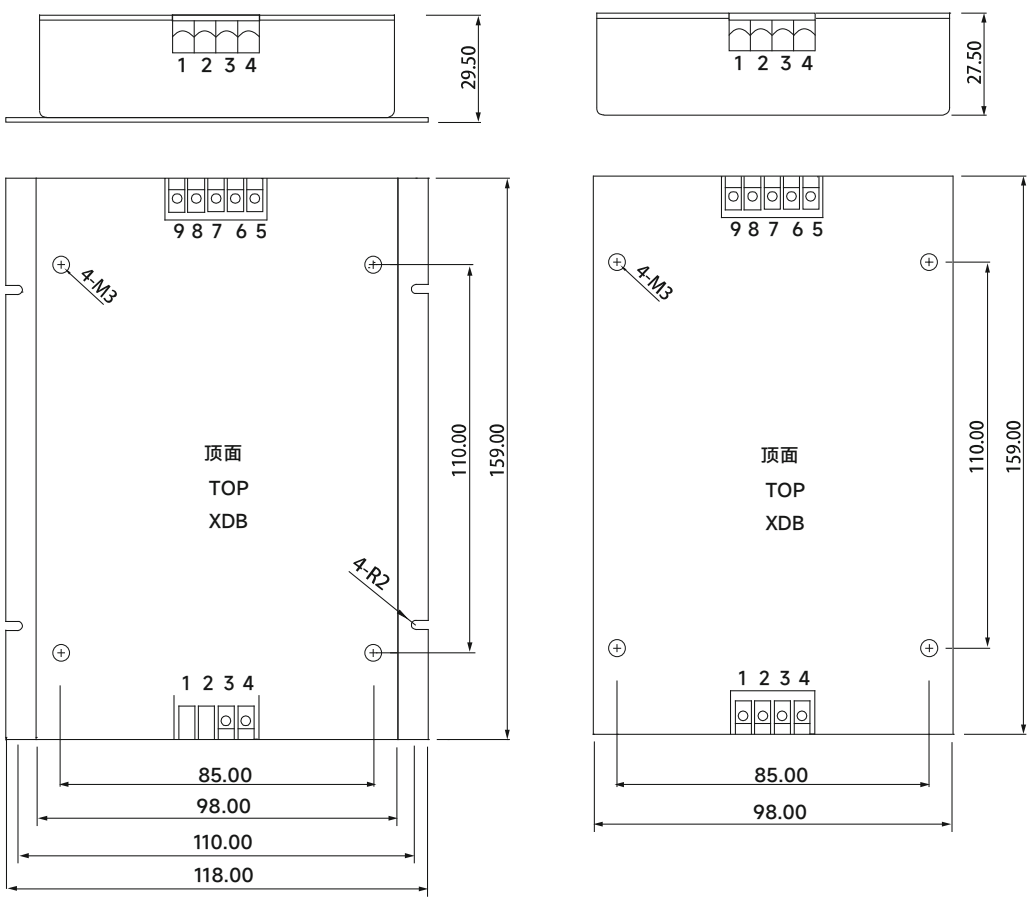
★ 输出短路保护(Output short circuit protection)

	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	12	8.3	100	83%	XDB100-12S12
	12	9-18	24	4.16	200	85%	XDB100-12S24
	24	18-36	28	7.14	280	88%	XDB200-24S28
	24	18-36	48	5	400	89%	XDB240-24S48
	24	18-36	12	16.7	120	85%	XDB200-24S12
	48	36-72	28	7.14	280	89%	XDB200-48S28
	48	36-72	24	12.5	200	89%	XDB300-48S24
	18	9-36	12	8.3	100	82%	XDB100-18S12
	18	9-36	24	5	200	83%	XDB120-18S24

■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	TRIM	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