



特性 Features

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| ● 输入C型滤波 | C type input filter |
| ● 引出脚功能兼容 | Pin function compatible |
| ● 输入输出完全隔离 | Completely isolate between input & output |
| ● 输出短路保护 | Output short circuit protection |
| ● 自然冷却, 无须附加散热器 | Natural cooling, no heat sink needed |
| ● 快速动态响应 | Fast dynamic response |
| ● 体积小, 单双路输出 | Small form factor, single double output |
| ● 高可靠性, 长寿命设计 | Design for high reliability, long lifetime |



输入特性 Input Characteristic

电压范围 (Voltage Range)	5VDC(额定值) 12VDC(额定值) 24VDC(额定值)	4.5-9 VDC 9-18 VDC 18-36 VDC	36VDC(额定值) 48VDC(额定值) 110VDC(额定值)	18-72 VDC 36-72 VDC 72-144 VDC	反压保护 (Reverse Protection) 应用时外接熔丝 (Fuse Outside)
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输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	Vo1: ±1%、Vo2: ±3%	温度系数 (Temperature Coefficient)	±0.02%/°C
电压调整率 (Line Regulation)	±1%	电流限制点 (Output Current Limiting)	120%(Typ)
负载调整率 (Load Regulation)	<0.5%	响应速度 (Dynamic Response)	400 μs
交叉调整率 (Cross Regulation)	±3%		

一般特性 General Characteristic

工作频率 (Switching Frequency)	300 KHz	环境特性(Environmental Characteristics)	
绝缘电阻 (Isolation Resistance)	100 MΩ	工作温度(Operation Temperature)	
MTBF	>500000 H	工业品(Industry)	-25°C ~ +60°C
绝缘强度(Isolation Voltage)		军品(Military I)	-40°C ~ +70°C
输入-输出 (Input-Output)	>1500 VDC	存储温度(Storage Temperature)	
输入-外壳 (Input-Case)	>1050 VDC	工业品(Industry)	-45°C ~ +105°C
输出-外壳 (Output-Case)	>500 VDC	军品(Military I)	-55°C ~ +105°C
主路-副路 (Main-Aux)	>500 VDC		

DC-DC 插针式电源模块系列

型号 Models

型号 Models	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	纹波(mv) Ripple and noise	效率(Typ) Efficiency		
MDB7-XXS5	12	9~18	5.0	1.4	50	79%		
MDB7-XXS12			12.0	0.6	100	82%		
MDB7-XXS15			15.0	0.5	100	83%		
MDB7-XXS24			24	18~36	24.0	0.3	100	85%
MDB7-XXS48					48.0	0.15	200	86%
MDB7-XXD5	48	36~72	5.0/-5.0	0.7/0.7	50/50	79%		
MDB7-XXD12			110	72~144	12.0/-12.0	0.3/0.3	100/100	83%
MDB7-XXD15			15.0/-15.0	0.25/0.25	100/100	83%		
MDB7-XXD24			24.0/-24.0	0.125/0.125	100/100	85%		
MDB10-XXS5	12	9~18	5.0	2.0	50	79%		
MDB10-XXS12			12.0	0.83	100	82%		
MDB10-XXS15			15.0	0.67	100	83%		
MDB10-XXS24			24	18~36	24.0	0.42	100	85%
MDB10-XXS48					48.0	0.21	200	86%
MDB10-XXD5	48	36~72	5.0/-5.0	1.0/1.0	50/50	79%		
MDB10-XXD12			110	72~144	12.0/-12.0	0.42/0.42	100/100	83%
MDB10-XXD15			15.0/-15.0	0.33/0.33	100/100	83%		
MDB10-XXD24			24.0/-24.0	0.21/0.21	100/100	85%		
MDB12-XXS5	12	9~18	5.0	2.4	50	79%		
MDB12-XXS12			12.0	1.0	100	82%		
MDB12-XXS15			15.0	0.8	100	83%		
MDB12-XXS24			24	18~36	24.0	0.5	100	85%
MDB12-XXS48					48.0	0.25	200	86%
MDB12-XXD5	48	36~72	5.0/-5.0	1.2/1.2	50/50	79%		
MDB12-XXD12			110	72~144	12.0/-12.0	0.5/0.5	100/100	83%
MDB12-XXD15			15.0/-15.0	0.4/0.4	100/100	83%		
MDB12-XXD24			24.0/-24.0	0.25/0.25	100/100	85%		

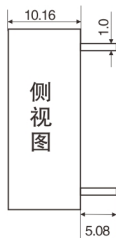
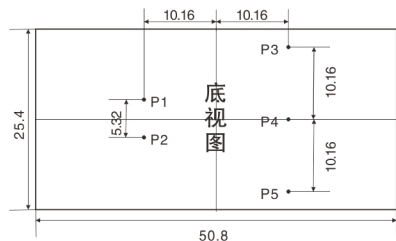
说明: 仅列出典型型号, 其他型号, 请确定功率、输入电压及输出电压, 致电我公司0571-88915820

Only typical models listed. If you need other model, please conform the power, input voltage and output voltage, then phone us.

外形尺寸及引脚定义(单位mm) Mechanical drawing and pin definition

MDB(7~12W)尺寸:

50.8 × 25.4 × 10.16mm (2" × 1" × 0.4")



引脚	单路	双路
P1	Vin+	Vin+
P2	Vin-	Vin-
P3	Vo1+	Vo1+
P4	NC	COM
P5	GND	Vo2-