

## 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            |
| ● 满负荷效率可达89%  | Full load efficiency up to 89%             |
| ● 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)	12VDC(额定值)	9-18 VDC	
	24VDC(额定值)	18-36 VDC	反压保护 ( Reverse Protection)
	48VDC(额定值)	36-72 VDC	应用时外接熔丝 ( Fuse Outside)
	110VDC(额定值)	72-144 VDC	

## 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
输出电压调整范围 (Output Voltage Range)	±10%	电流限制点 (Output Current Limiting)	120%(Typ)
电压调整率 (Line Regulation)	±1%	响应速度 (Dynamic Response)	400 μs
负载调整率 (Load Regulation)	<0.5%		
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 Resitstance)	200 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I(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I(Military I)	-55°C ~ +105°C
主路-副路(Main-Aux)	>500VDC		

## 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		
MD15-XXS5	12	9~18	5.0	3.0	50	83%		
MD15-XXS12			12.0	1.25	100	85%		
MD15-XXS15			15.0	1.0	100	86%		
MD15-XXS24			24.0	0.625	100	86%		
MD15-XXD5			110	72~144	5.0/-5.0	1.5/1.5	80/80	85%
MD15-XXD12					12.0/-12.0	0.625/0.625	100/100	87%
MD15-XXD15					15.0/-15.0	0.5/0.5	100/100	87%
MD20-XXS5					12	9~18	5.0	4.0
MD20-XXS12	12.0	1.67	100	85%				
MD20-XXS15	15.0	1.33	100	86%				
MD20-XXS24	24.0	0.83	100	86%				
MD20-XXD5	110	72~144	5.0/-5.0	2.0/2.0			80/80	85%
MD20-XXD12			12.0/-12.0	0.83/0.83			100/100	87%
MD20-XXD15			15.0/-15.0	0.67/0.67			100/100	87%

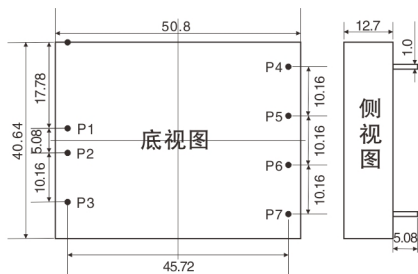
说明: 仅列出典型型号, 其他型号, 请确定功率、输入电压及输出电压, 致电我公司0571-88915820

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

MD(15~20W)尺寸:

50.8 × 40.64 × 12.7mm(2" × 1.6" × 0.5" )



引脚	单路	双路
P1	Vin+	Vin+
P2	Vin-	Vin-
P3	REM	REM
P4	NC	Vo1+
P5	Vo1+	COM
P6	GND	Vo2-
P7	TRIM	TRIM