

Specification for approval

Description (产品类型) : Power Module

Customer P/N (客户) : _____

ZETTLER P/N (赛特勒) : DPL50S2400EAA

Revision (版本号) : PD1.0

Drafted (编制) : Honghua Luo

Checked (审核) : Xianzhi Xie

Approved (批准) : Aaron Chen



PD1.0	2024/10/23	Initial release	Honghua Luo
Rev.	Date	Description	Approved

Approved by Customer (客户确认) : _____

Friendly Reminder: Please help to sign this Spec when approve , and fax to our company . Or else, we will consider you have accepted it and make future order based on this Spec.

友情提示:请在签字确认后,按封面的传真号码回传给赛特勒磁电有限公司.如无回传,则视为默认,后续的相关订单将以按本承认书的规定为技术要求

1.OUTLINE DRAWING (外形图)

Outline Dimensions
(Unit:mm)
Tolerance: $\pm 0.5[\pm 0.02]$

NO.	Pin connect
1	-Vin
2	+Vin
3	-Vo
4	+Vo

PCB Layout:

Label:

ZETTLER
Switching Power Module
Model:DPL50S2400EAA
Input(1-2):150-650VDC 0.9A
Output(3-4):24VDC 2083mA

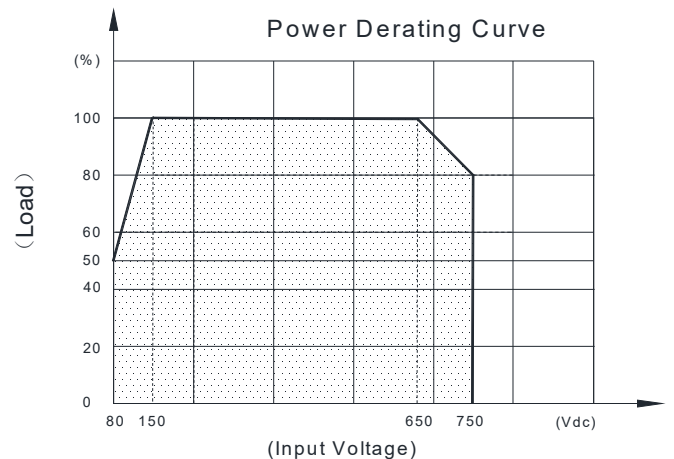
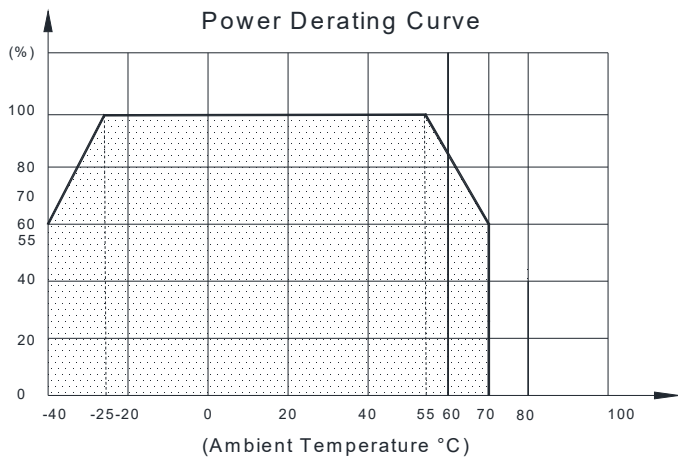
① -Vin +Vo ④
② +Vin -Vo ③

YYWW
YY:year
ww:week

2.SCHEMATIC (原理图)

ITEM	MOV	FUSE(required)	TVS	C1	C2	
	50W	10D102K	3.15A/1000VDC	30A	1uF/50V	10uF/35V

3.POWER DERATING(降额功率曲线图)



4.ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		DPL50S2400EAA		
Input 输入参数	Rated Voltage / 额定电压	150VDC-650VDC		
	Voltage Range / 输入电压范围	80VDC-750VDC		
	Current (Full load) / 输入电流	150VDC	650VDC	
		900mA	300mA	
	Inrush Current (<500us) / 冲击电流	80A max.		
	No Load Loss / 待机功耗	1.2W Max @500VDC		
	HOT PLUG / 热拔插	Unavailable		
Output 输出参数	Voltage (V) / 输出电压	24V		
	Current (mA) max. / 输出额定电流	2083		
	Voltage Accuracy / 输出电压精度	±2%		
	Line Regulation / 线性调节率	±1%		
	Load Regulation / 负载调节率	±2%		
	Minimum Load (mA) / 最小负载	0		
	Ripple & Noise (mV) / 输出纹波	200 / 20MHz bandwidth (peak-to-peak value)		
	Efficiency (typ.) / 工作效率	≥85%@300VDC		
	Start-up Time / 开机延迟时间	3s		
	Hold up Time / 掉电保持时间(典型值)	35ms/150VDC ,80ms/750VDC		
Protection 保护特性	Over Current Protection / 过流保护	Hiccup mode		
	Short Circuit Protection / 短路保护	Hiccup mode		
Environment 环境	Operating Temperature / 工作温度	-40°C...+70°C @Free air convection (reference to the power derating)		
	Operating Humidity / 工作湿度	10-90% RH		
	Storage Temperature / 存储温度	-40°C...+85°C		
	Storage Humidity / 存储湿度	5-95% RH		
	Temperature Coefficient/温度漂移系数	±0.04%/°C (0~50°C)		
Physical 外观结构	Case Material / 外壳材质	Plastic (UL 94V-0 rated)		
	Weight / 产品净重	TBD		
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	I/P-O/P : 4000VAC		
	Safety Standards / 安全标准	Compliance With EN62109-1,UL1741		
	EMI / 电磁兼容	Compliance With EN55032 CLASS B		
	EMS (Noise Immunity)/ 电磁抗干扰	ESD ±6KV contact; ±8KV Air EN 61000-4-2:2009 Criteria B SURGE ±2KV(L-N) EN 61000-4-5 Criteria B EFT ±2KV EN61000-4-4 Criteria B	Need to add external EMC component (Reference to the Schematic)	
Reliability Requirement 可靠性要求	MTBF/平均故障间隔时间	300Khrs Min MIL-HDBK-217F (25°C)		
	Burn-In Test/ 老化测试	The unit shall be burned in for 2~4 Hours under 650VDC input and with full load at 25°C		