

Specification for approval

Description（产品类型）： Power Module

Customer p/n（客户）：

ZETTLER p/n（赛特勒）： ZP05S1800WB

Revision（版本号）： A4

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Approved（批准）： Aaron.Chen



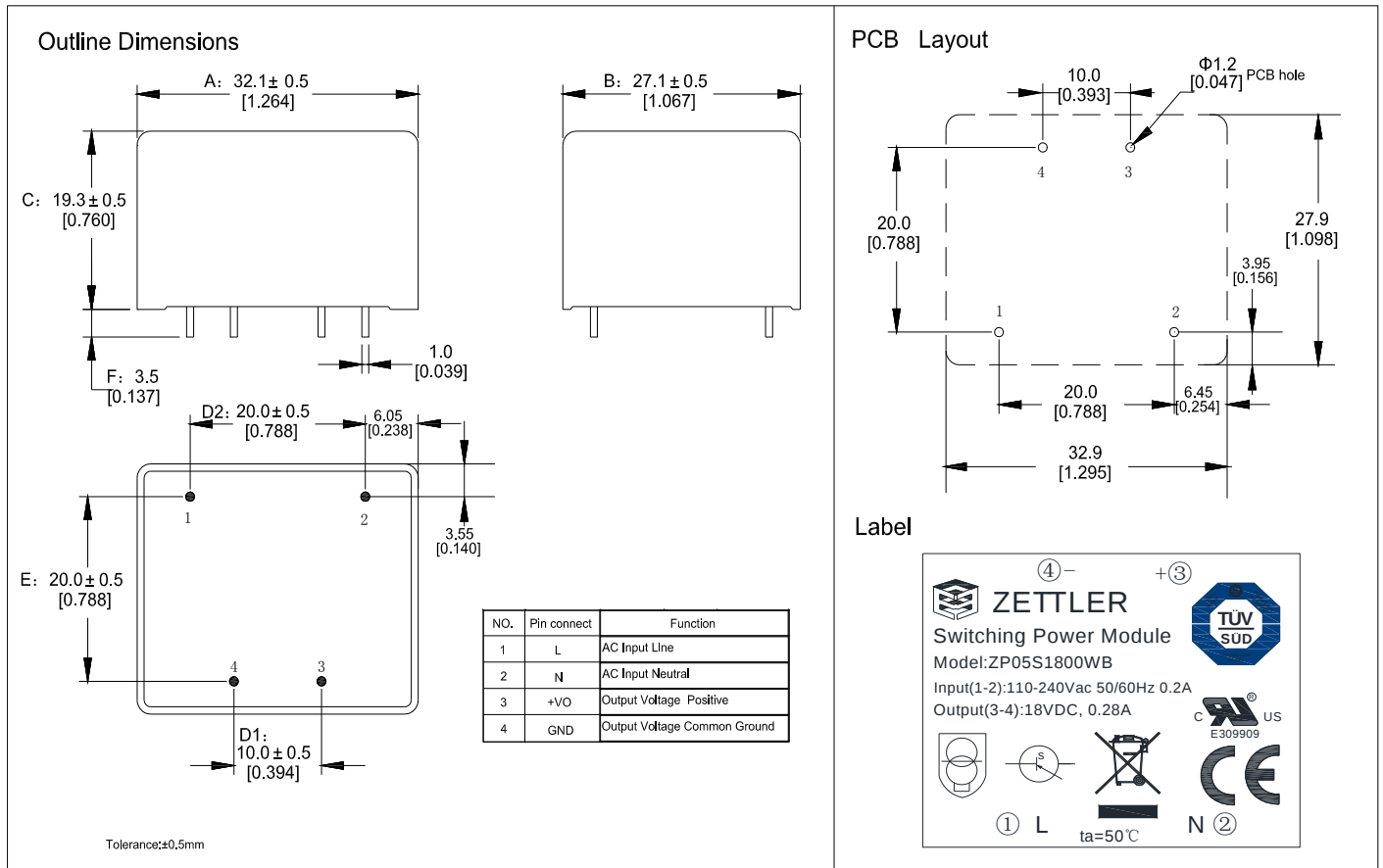
Rev.	Date	Description	Approved
A4	2020/11/27	Modify Label and Rated Voltage, Modify Input Voltage Range, Modify ELECTRICAL SPECIFICATION	WLL
A3	2020/5/9	Simplify typical application schematic	XD
A2	2020/1/13	Add reference PCB layout,input(1-2) from 110-240Vac to 100-240Vac,Output Voltage Accuracy from $\pm 5\%$ (Typ.) to 0-10%: $\pm 7\%$ / 10%-100% : $\pm 5\%$,add Line Regulation: $\pm 2\%$,add Load Regulation $\pm 3\%$,Input Capacitor from 4.7uF@105 $^{\circ}$ C (life time 3Khrs) to 6.8uF @105 $^{\circ}$ C(life time 5Khrs),add TUV logo	XD
A1	2018/8/14	Modify Efficiency	XD
A0	2014/12/4	Initial Release	Dana
Rev.	Date	Description	Approved

Approved by Customer（客户确认）：

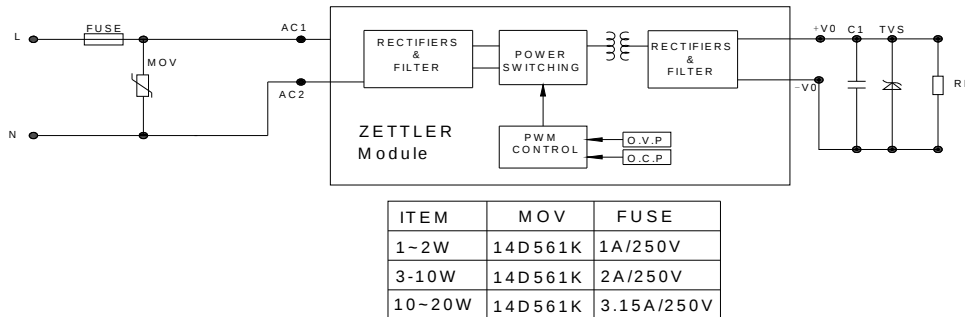
Friendly Reminder: Please help to sign this Spec when approve , and fax to our company . Or else, we will consider you have accepted it and make future order based on this Spec.

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)

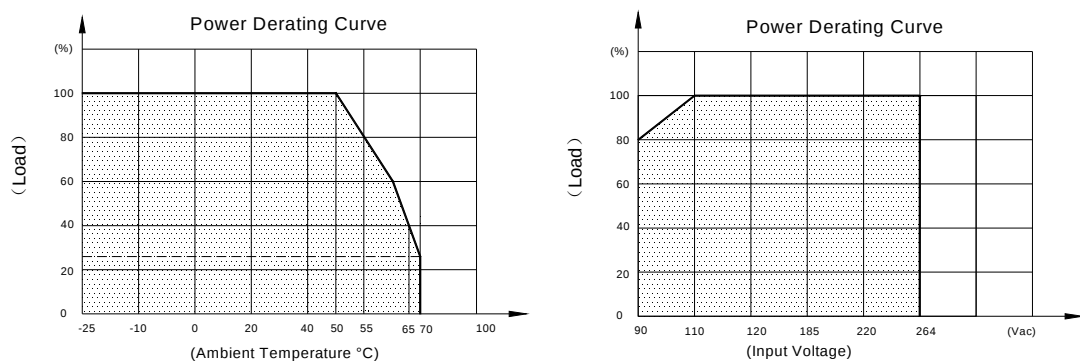


2.SCHEMATIC (原理图)



Note: External circuit components are only recommendations, customers should choose their own components and values according to their specific system application requirements.

3.POWER DERATING(降额功率曲线图)



4.ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		ZP05S1800WB	
Input 输入参数	Rated Voltage / 额定电压	110-240VAC	
	Input Voltage Range / 输入电压范围	90-264VAC or 100~370VDC	
	Frequency (Hz) / 输入频率范围	47-63 Hz	
	Current (Full load) / 输入电流	115VAC	230VAC
		100mA	65mA
	Inrush Current (<500us) / 冲击电流	10A	20A
	No Load Loss / 待机功耗	0.3W Max@230VAC	
	HOT PLUG / 热拔插	Unavailable	
Output 输出参数	Voltage (V) / 输出电压	18	
	Current (mA) max. / 输出额定电流	280	
	Voltage Accuracy / 输出电压精度	0-10%: $\pm 7\%$ / 10%-100% : $\pm 5\%$	
	Line Regulation / 线性调节率	$\pm 2\%$	
	Load Regulation / 负载调节率	$\pm 3\%$	
	Minimum Load (mA) / 最小负载	0	
	Ripple & Noise (mV) / 输出纹波	500	
	Efficiency (typ.) / 工作效率	70%	
	Set-up Time / 开机时间	38.9ms/230Vac, 68.8ms/115Vac	
	Hold up Time / 掉电保持时间(典型值)	63.2ms/230Vac ,12.2ms/115Vac	
Protection 保护特性	Over Current Protection / 过流保护	$\geq 120\% I_o$ Self-recovery	
	Short Circuit Protection / 短路保护	Hiccup ,continuous ,short capable, self-recovery	
Environment 环境	Operating Temperature / 工作温度	$-25^{\circ}\text{C} \dots +50^{\circ}\text{C}$ @Free air convection(Refer to the derating curve)	
	Operating Humidity / 工作湿度	10-90% RH	
	Storage Temperature / 存储温度	$-40^{\circ}\text{C} \dots +105^{\circ}\text{C}$	
	Storage Humidity / 存储湿度	5-95% RH	
	Temperature Coefficient/温度漂移系数	$\pm 0.05\%/^{\circ}\text{C}$ ($0 \sim 50^{\circ}\text{C}$)	
Physical 外观结构	Case Material / 外壳材质	Plastic (UL 94V-0 rated)	
	Weight / 产品净重	30g (ref.)	
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	$\geq 4200\text{VDC}/50\text{HZ } 5\text{mA } 1\text{min}$	
	Safety Standards / 安全标准	Compliance With EN61558-2-16, UL/EN 60950-1, UL/EN 62368-1	
	EMC / 电磁兼容	Compliance With EN55032, CLASS B	Need to add external EMC
	EMS (Noise Immunity)/ 电磁抗干扰	Compliance With EN55035	component (See the Schematic)
Reliability Requirement 可靠性要求	MTBF/平均故障间隔时间	300Khrs Min @230VAC . MIL-HDBK-217F (25°C)	
	Burn-In Test/ 老化测试	The unit shall be burned in for 2~4 hours under 264Vac input and DC with full load at normal temperature	