

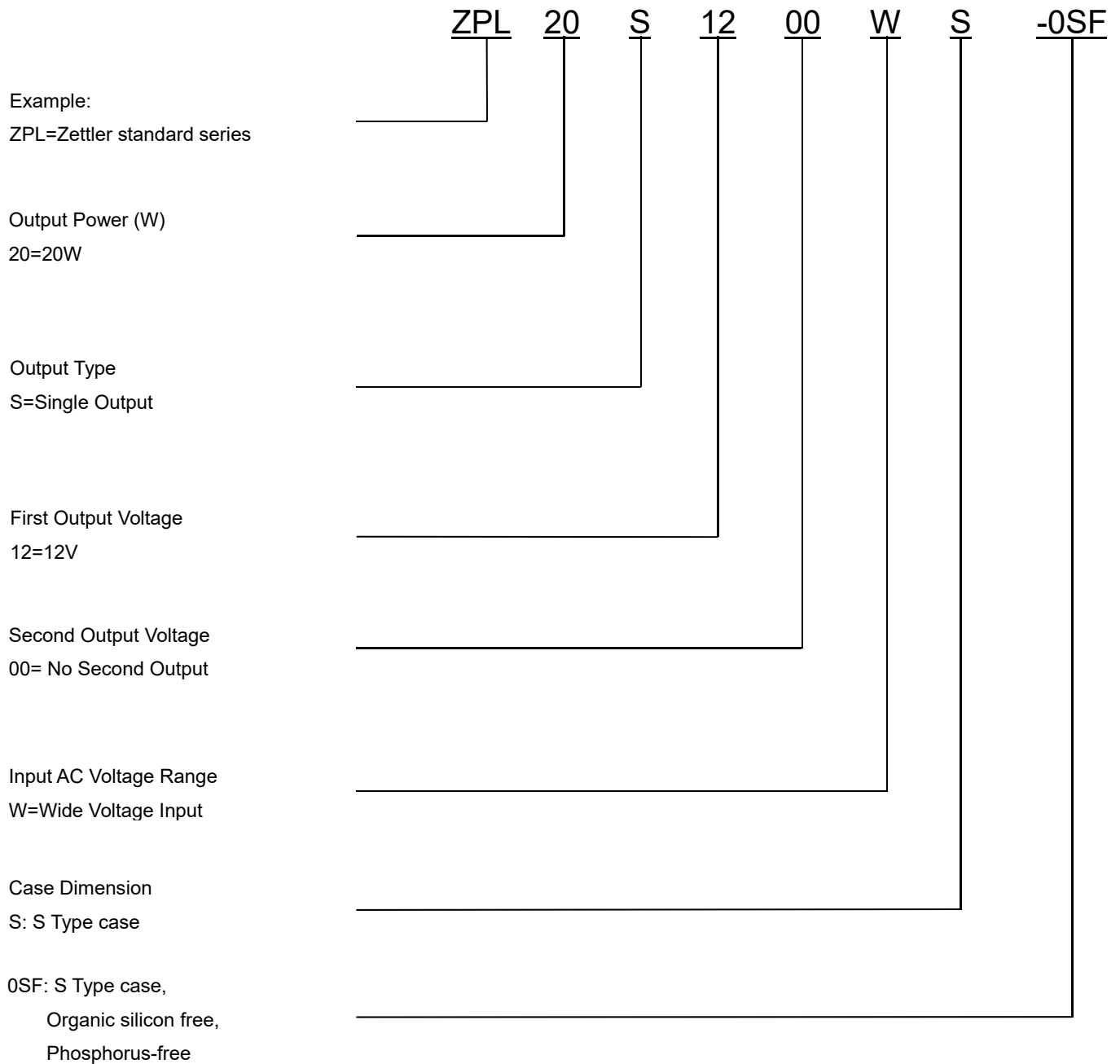


**RoHS**


Organic silicon free

Phosphorus-free

### ORDERING CODE (命名规则)



### FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range: 90VAC-305VAC
- DC input voltage range: 120VDC-430VDC
- Ambient temperature range: -40°C ~70°C
- Storage temperature range: -25°C ~85°C
- Leakage current (input :264VAC): <0.3mA
- Isolation voltage: input –Output  $\geq$ 3600VAC 60s
- Insulation Resistance: Input –Output 500VDC  $\geq$ 100M Ohms
- MTBF: 300Khrs Min MIL-HDBK-217F (25°C)
- Compact size, easy installation, Surge L-N 2.5KV
- High efficiency low standby Power consumption, green environmental protection function
- Built-in output over current protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55032 class B standard
- Class II Construction 

### APPLICATIONS (应用)

This series could be widely applied in the applications of harsh industrial, EV charger, Automotive etc.

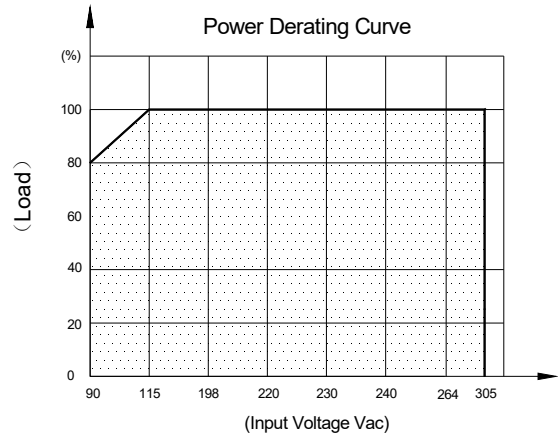
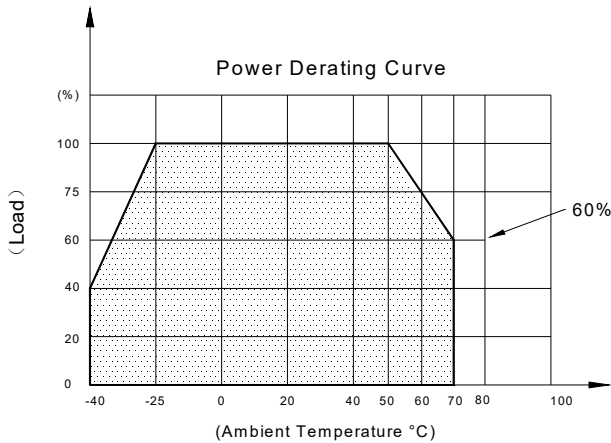
### MODEL LIST (型号列表)

Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple&Noise (max)	Ambient TEMP(°C)	Weight	Certificate		
								UL	TUV	CB
ZPL20S0500WS-0SF	20W	5Vdc	4000mA	80%	<200mV	50	78g	●	●	●
ZPL20S1200WS-0SF	20W	12Vdc	1670mA	85%	<200mV	50	78g	●	●	●
ZPL20S1500WS-0SF	20W	15Vdc	1330mA	85%	<200mV	50	78g	●	●	●
ZPL20S1800WS-0SF	20W	18Vdc	1110mA	85%	<200mV	50	78g	●	●	●
ZPL20S2400WS-0SF	20W	24Vdc	830mA	85%	<200mV	50	78g	●	●	●

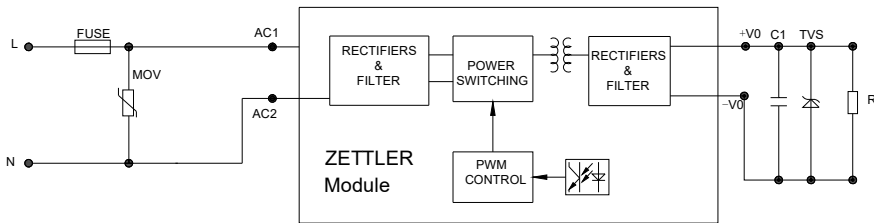
### ELECTRICAL SPECIFICATION (电性能参数)

Model No. / 型号		ZPL20SXX00WS-0SF			
Input 输入参数	Rated Voltage / 额定电压	100-277VAC			
	Voltage Range / 输入电压范围	90-305VAC or 120-430VDC			
	Frequency (Hz) / 输入频率范围	47-63 Hz			
	Current (Full load) / 输入电流	115VAC	230VAC	277VAC	
		400mA	300mA	250mA	
	Inrush Current (<500us) / 冲击电流	20A	40A	50A	
	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	Refer to "Model List"			
	Current (mA) max. / 输出额定电流	Refer to "Model List"			
	Voltage Accuracy / 输出电压精度	±3%			
	Line Regulation / 线性调节率	±0.5%			
	Load Regulation / 负载调节率	±1%			
	Minimum Load (mA) / 最小负载	0			
	Ripple & Noise / 输出纹波	Refer to "Model List"			
	Efficiency (typ.) / 工作效率	Refer to "Model List"			
	Start-up Time / 开机延迟时间	3s			
Hold up Time / 掉电保持时间(典型值)	76.9ms/230VAC ,13.6ms/115VAC				
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 (40% Load@-40°C) (refer to the Power Derating Curve)			
	Operating Humidity / 工作湿度	20~90% RH ( No Condensing) at full load			
	Storage Temperature / 存储温度	-25°C~85°C			
	Storage Humidity / 存储湿度	10~95% RH			
	Temperature Coefficient/温度漂移系数	±0.05%/°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	78g (ref.)			
Safety & EMC 安全认证及 电磁兼容	Dielectric Strength / 绝缘强度	I/P-O/P : 3600VAC			
	Protection against electric shock	Class II construction <input type="checkbox"/>			
	Safety Standards / 安全标准	Compliance with EN62368-1, EN61558-2-16, Plastic materials in accordance with EN60335-1 clause 30			
	EMI / 电磁兼容	Compliance with EN55032 CLASS B, EN61000-3-2, EN61000-3-3	Need to add external EMC component (Refer to the Schematic)		
EMS (Noise Immunity)/ 电磁抗干扰	Compliance with EN 55035, Surge EN61000-4-5 ( 2.5KV, L-N)				
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 277Vac input and with full load at 25°C			

## PRODUCT CHARACTERISTIC CURVE (产品特性曲线)



## TYPICAL APPLICATION SCHEMATIC (典型应用电路)



ITEM	MOV	FUSE
1~2W	14D561K	1A/300V Min
3~10W	14D561K	2A/300V Min
10~20W	14D561K	3.15A/300V Min

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

## MECHANICAL SPECIFICATION (尺寸图)

