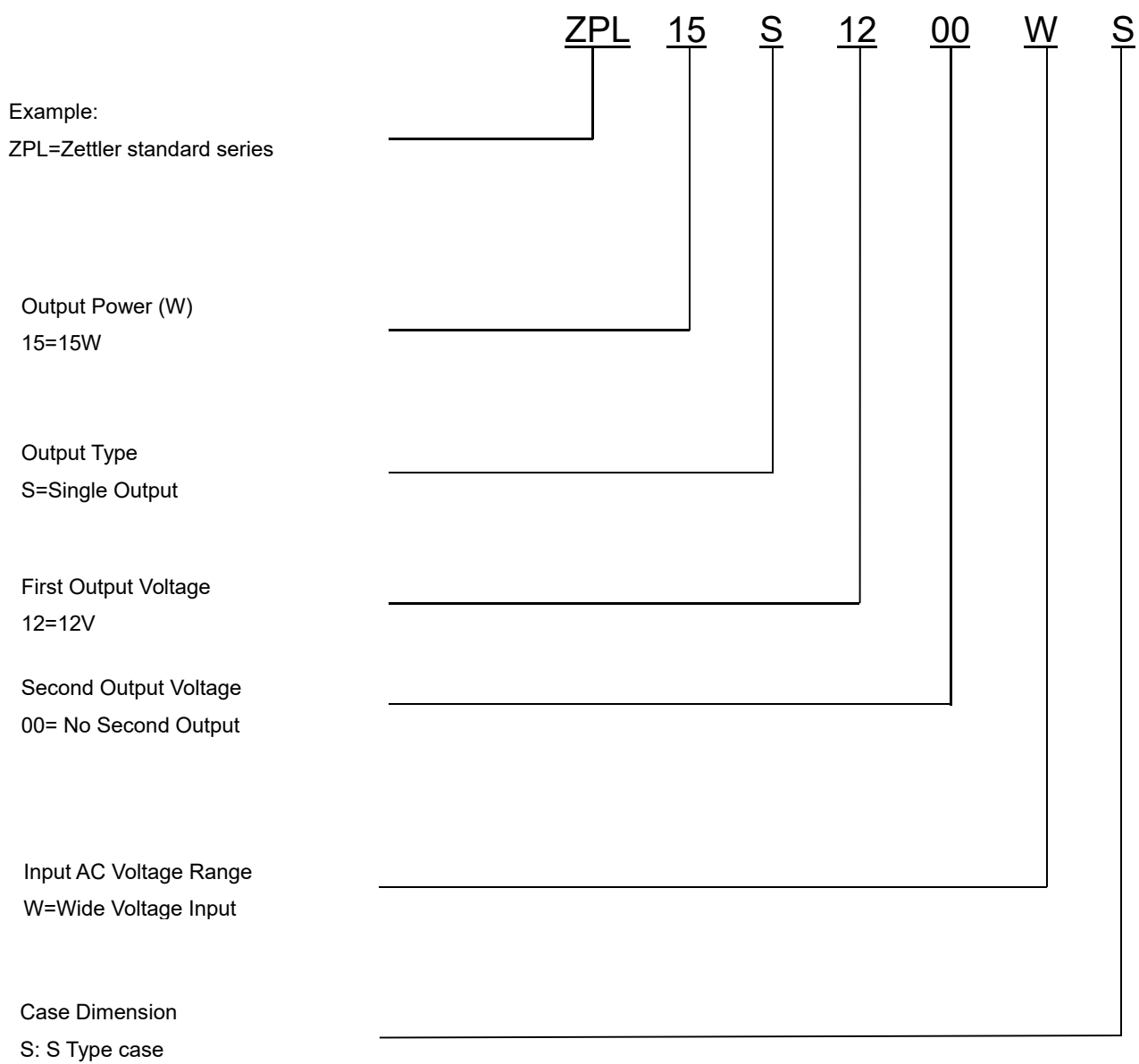





**RoHS**

### ORDERING CODE



**FEATURES**

- PCB mounted switching Power module
- AC input voltage range: 90VAC-305VAC
- DC input voltage range: 120VDC-430VDC
- Ambient temperature range: -40°C ~50°C
- Storage temperature range: -25°C ~85°C
- Leakage current (input :264VAC): <0.3mA
- Isolation voltage: input –Output ≥3600VAC 60S
- Insulation Resistance: Input –Output 500VDC ≥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**

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

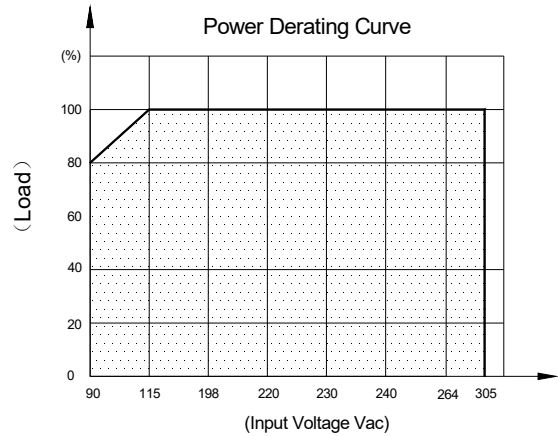
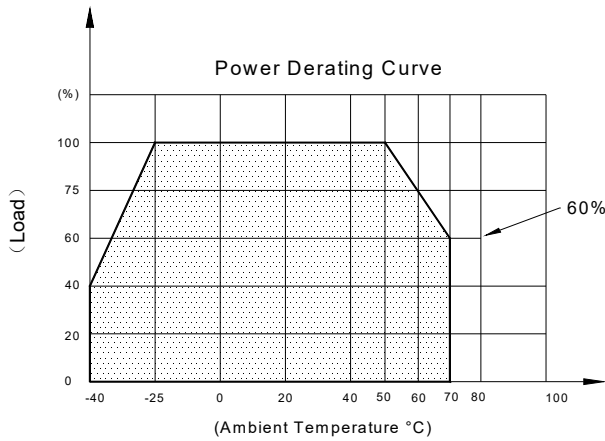
**MODEL LIST**

Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple&Noise (max)	Ambient TEMP(°C)	Weight	Certificate		
								UL	TUV	CB
ZPL15S0500WS	15W	5Vdc	3000mA	78%	<200mV	50	78g	●	●	●
ZPL15S1200WS	15W	12Vdc	1250mA	82%	<200mV	50	78g	●	●	●
ZPL15S1500WS	15W	15Vdc	1000mA	82%	<200mV	50	78g	●	●	●
ZPL15S1800WS	15W	18Vdc	830mA	83%	<200mV	50	78g	●	●	●
ZPL15S2400WS	15W	24Vdc	620mA	83%	<200mV	50	78g	●	●	●

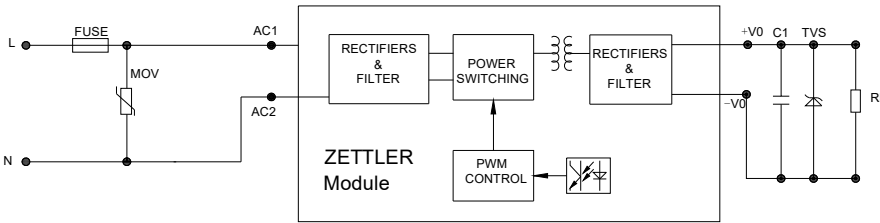
### ELECTRICAL SPECIFICATION

Model No.		ZPL15SXX00WS		
Input	Rated Voltage	100-277VAC		
	Voltage Range	90-305VAC or 120-430VDC		
	Frequency (Hz)	47-63 Hz		
	Current (Full load)	115VAC	230VAC	277VAC
		300mA	200mA	180mA
	Inrush Current (<500us)	20A	40A	50A
	No Load Loss	0.3W Max @230VAC		
HOT PLUG	Unavailable			
Output	Voltage (V)	Refer to "Model List"		
	Current (mA) max.	Refer to "Model List"		
	Voltage Accuracy	±3%		
	Line Regulation	±0.5%		
	Load Regulation	±1%		
	Minimum Load (mA)	0		
	Ripple & Noise	Refer to "Model List"		
	Efficiency (typ.)	Refer to "Model List"		
	Start-up Time	3S		
	Hold up Time	76.9ms/230VAC, 13.6ms/115VAC		
Protection	Over Current Protection	Hiccup mode		
	Short Circuit Protection	Hiccup mode		
Environment	Operating Temperature	-40°C...+70°C (40% Load@-40°C) (reference to the power derating)		
	Operating Humidity	20~90% RH ( No Condensing) at full load		
	Storage Temperature	-25°C~85°C		
	Storage Humidity	10~95% RH		
	Temperature Coefficient	±0.05%/°C (0~50°C)		
Physical	Case Material	Plastic (UL 94V-0 rated)		
	Weight	78g (ref.)		
Safety & EMC	Dielectric Strength	I/P-O/P : 3600VAC		
	Protection against electric shock	Class II construction <input type="checkbox"/>		
	Safety Standards	Compliance With EN62368-1, EN61558-2-16, Plastic materials in accordance with EN60335-1 clause 30		
	EMI	Compliance With EN55032 CLASS B, EN61000-3-2, EN61000-3-3	Need to add external EMC component (Refer to the Schematic)	
	EMS (Noise Immunity)	Compliance With EN 55035, Surge EN61000-4-5 ( 2.5KV, L-N)		
Reliability Requirement	MTBF	300Khrs Min MIL-HDBK-217F (25°C)		
	Burn-In Test	The unit shall be burned in for 2~4 hours under 277Vac input and with full load at normal temperature		

## PRODUCT CHARACTERISTIC CURVE



## TYPICAL APPLICATION SCHEMATIC



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

### Outline Dimensions

A:  $52.4 \pm 0.5$  [2.063]  
 B:  $27.2 \pm 0.5$  [1.071]  
 C:  $31.0 \pm 0.5$  [1.220]  
 D:  $20.8 \pm 0.5$  [0.819]  
 E:  $45.0 \pm 0.5$  [1.772]  
 F:  $8.0 \pm 0.5$  [0.315]  
 G:  $3.5 \pm 0.5$

PIN size  $\phi 1.0$ (ref.)

Tolerance:  $\pm 0.5$ mm

### PCB Layout

PCB hole  $\phi 1.6$  [0.063]  
 Pin 1: 20.8 [0.819]  
 Pin 2: 3.6 [0.134]  
 Pin 3: 4.1 [0.161]  
 Pin 4: 28.0 [1.102]  
 Pin 3-4 spacing: 8.0 [0.315]  
 Pin 1-2 spacing: 45.0 [1.772]  
 Pin 1-4 spacing: 53.2 [2.094]

NO.	Pin connect	Function
1	ACL	AC Input Line
2	AC/N	AC Input Neutral
3	-	Output Negative
4	+	Output Positive