



**ORDERING CODE**

Example:

- ZP = Zettler standard series
- AP = Customized series
- HP = High Performance series
- DP = DC-DC

Total Output Power (W)

Example:

- 03 = 3W
- 20 = 20W

Output Type

- S = Single Output
- D = Dual Output
- T = Triple Output

First Output Voltage

- 05 = 5V, 12 = 12V

Second Output Voltage

- 06 = 6V, 12 = 12V
- 00 = No Second Output

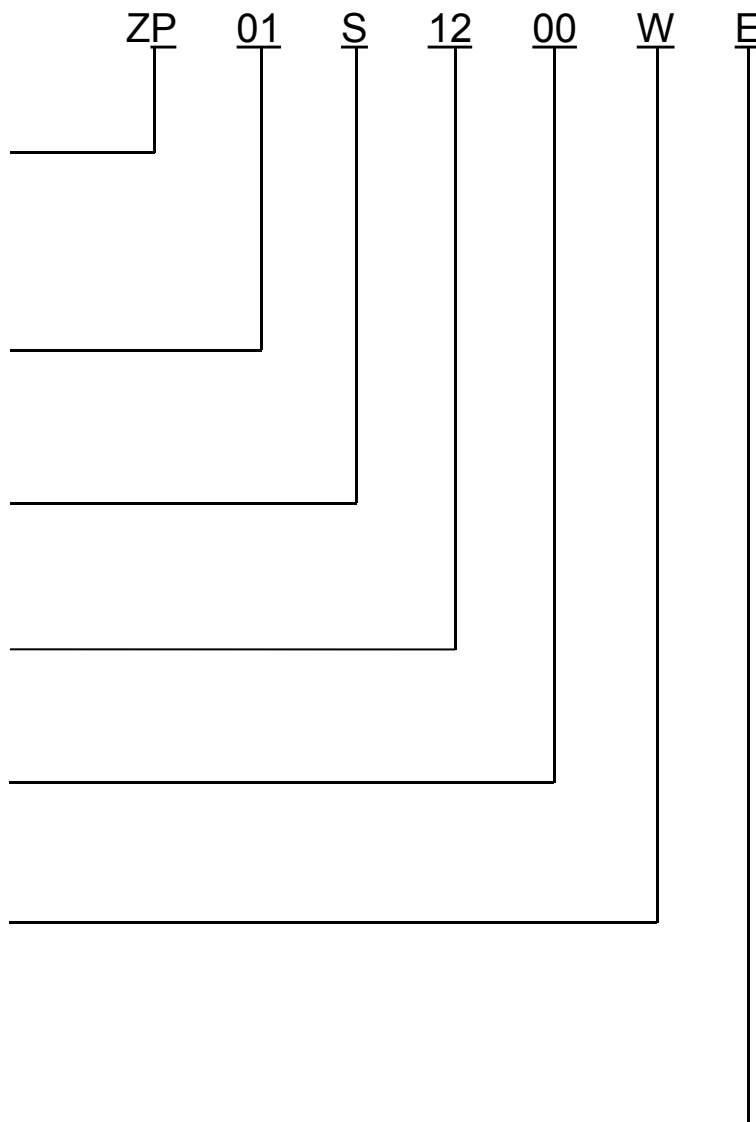
Input AC Voltage Range

- W=Wide Voltage Input
- H = High Voltage Input ( $\geq 165\text{VAC}$ )
- L = Low Voltage Input ( $< 165\text{VAC}$ )

Additional Case Type

Example

- A: A Type case
- B: B Type case...



**FEATURES**

- PCB mounted switching Power module
- AC input voltage range: 90VAC~265VAC
- DC input voltage range: 100VDC~370VDC
- Ambient temperature range: -25°C~70°C
- Storage temperature range: -40°C~105°C
- Leakage current (Input :277VAC): <0.1mA
- Isolation voltage: Input – Output  $\geq 3000$ VAC 60S
- Insulation Resistance: Input – Output 500VDC  $\geq 100$ M Ohms
- MTBF(at 25°C 70%RH environment): >300000hrs
- Compact size, easy installation
- High efficiency Low standby power consumption, environment-friendly
- Built-in output over current protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55032 class B standard
- Insulation: class II

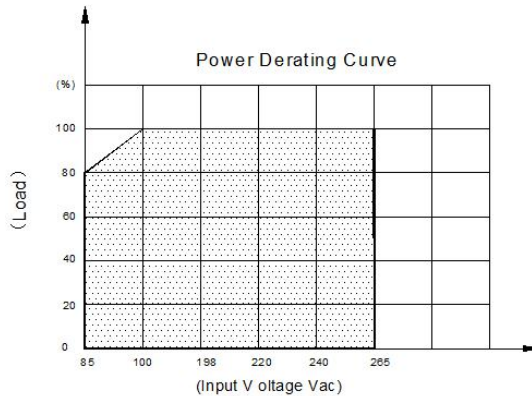
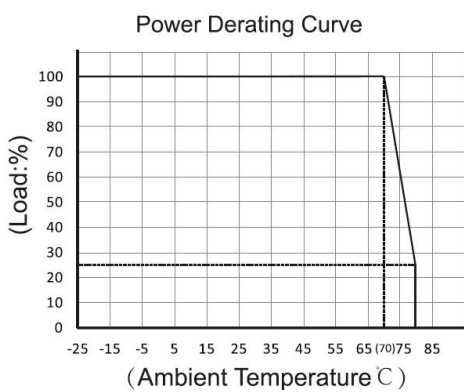
**MODEL LIST**

Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple &Noise (max)	Ambient TEMP(°C)	Weight
ZP01S0300WE	1W	3.3Vdc	300mA	65%	<7% Vout	70	15g
ZP01S0500WE	1W	5 Vdc	200mA	66%	<5% Vout	70	15g
ZP01S0600WE	1W	6 Vdc	167mA	68%	<5% Vout	70	15g
ZP01S0700WE	1W	7.5Vdc	133mA	68%	<5% Vout	70	15g
ZP01S0800WE	1W	8Vdc	125mA	70%	<5% Vout	70	15g
ZP01S0900WE	1W	9Vdc	111mA	72%	<5% Vout	70	15g
ZP01S1000WE	1W	10Vdc	100mA	72%	<5% Vout	70	15g
ZP01S1200WE	1W	12Vdc	85mA	72%	<5% Vout	70	15g
ZP01S1500WE	1W	15Vdc	67mA	74%	<5% Vout	70	15g
ZP01S1800WE	1W	18Vdc	55mA	74%	<5% Vout	70	15g
ZP01S2400WE	1W	24Vdc	42mA	74%	<5% Vout	70	15g

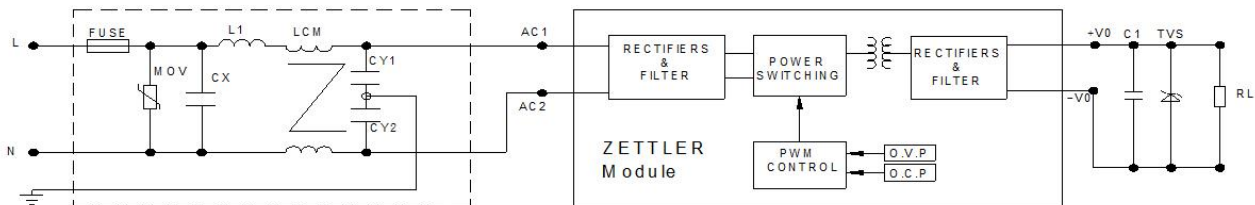
**ELECTRICAL SPECIFICATION**

Model No.		ZP01SXX00WE		
Input	Rate Voltage	100~240VAC		
	Input Voltage Range	90-265 VAC (or 100-370VDC)		
	Frequency (Hz)	47-63 Hz		
	Current (Full load)	115VAC	230VAC	
		25mA	18mA	
	Inrush Current (<500us)	6A	10A	
	No Load Loss	0.3W Max		
HOT PLUG	Unavailable			
Output	Voltage (V)	Refer to "Model List"		
	Current (mA) max.	Refer to "Model List"		
	Voltage Accuracy	0-10%: ±7% / 10-100% : ±5%		
	Line Regulation	±2%		
	Load Regulation	±3%		
	Minimum Load (mA)	0		
	Ripple & Noise	Refer to "Model List"		
	Efficiency (typ.)	Refer to "Model List"		
	Set-up Time	17.2ms/230Vac, 27.7ms/115Vac		
	Hold up Time	168ms/230Vac, 59ms/115Vac		
Protection	Over Current Protection	≥120%Io Self-recovery		
	Short Circuit Protection	Hiccup ,continuous ,short capable, self-recovery		
Environment	Operating Temperature	-25°C...+70°C @Free air convection		
	Operating Humidity	10-90% RH		
	Storage Temperature	-40°C...+105°C		
	Storage Humidity	5-95% RH		
	Temperature Coefficient	±0.05%/°C (0~50°C)		
Physical	Case Material	Plastic (UL 94V-0 rated)		
	Weight	15g (ref.)		
Safety & EMC	Dielectric Strength	≥3000V/50HZ 5mA 1min (OR 4200VDC/2S) (I/P-O/P)		
	Safety Standards	Compliance With EN60950-1, UL60950-1, UL 62368-1		
	EMI	Compliance With EN55032, CLASS B	Need to add external EMC component (See the Schematic)	
	EMS (Noise Immunity)	EN61000-3-2 Class A Heavy industry level (surge L-N:1KV)		
Reliability Requirement	MTBF	300Khrs Min @230VAC . MIL-HDBK-217F (25°C)		
	Burn-In Test	The unit shall be burned in for 2~5 hours under 264Vac input and DC with full load at normal temperature		

### PRODUCT CHARACTERISTIC CURVE



### TYPICAL APPLICATION SCHEMATIC



ITEM	MOV	CX	L1	LCM	CY1,CY2	FUSE
1~2W	14D561K	0.1-0.47uF	0.5~2mH/0.5A	10-30mH	100~2200pF/400VAC	1A/250V
3-10W	14D561K	0.1-0.47uF	0.5~2mH/1A	10-30mH	100~2200pF/400VAC	2A/250V
10~20W	14D561K	0.1-0.47uF	0.5~2mH/1A	10-30mH	100~2200pF/400VAC	3.15A/250V

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

### MECHANICAL SPECIFICATION

