

**RoHS**

## ORDERING CODE

ZPI 03 S 12 00 W C

Example:

ZPI=Zettler standard series

Output Power (W)

03=3W

Output Type

S=Single Output

First Output Voltage

12=12V

Second Output Voltage

00= No Second Output


Input AC Voltage Range

W=Wide Voltage Input

Case Dimension

C: C Type case

### FEATURES

- PCB mounted switching power module
- AC input voltage range: 90VAC-264VAC
- DC input voltage range: 100VDC-370VDC
- Operating temperature range: -25°C ~ (Refer to the MODEL LIST)
- Storage temperature range: -25°C ~85°C
- Leakage current (Input :264VAC): <0.1mA
- 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
- 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
- Class II Construction 

### APPLICATIONS

This series could be widely applied in the LED, light control, Instrument, smart home and other home appliances.

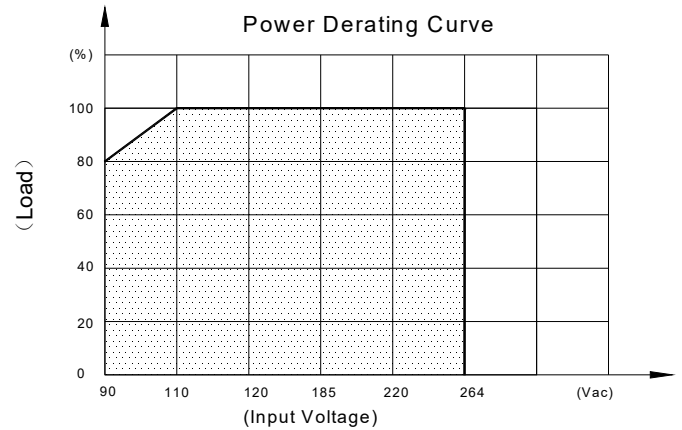
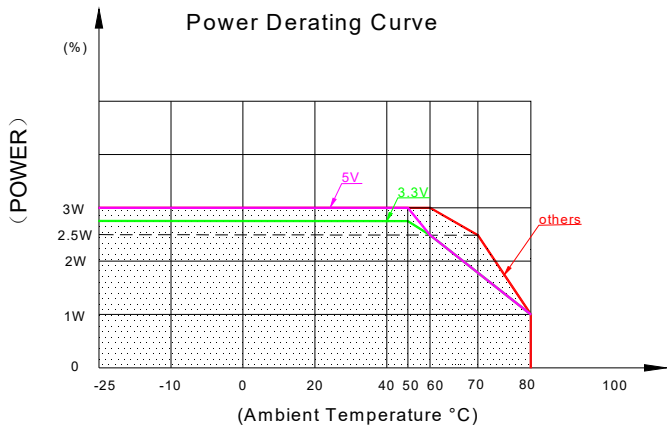
### MODEL LIST

Model No.	Output Power (W)	DC Voltage (V)	Rated Current (mA)	Efficiency 230VAC (Typ.)	Max. Ripple & Noise (mV)	Ambient TEMP. (°C)	Weight (g)	Certificate		
								UL	TUV	CB
ZPI03S0300WC	2.75	3.3	830	65%	<200	50	17	●	●	●
	2.5		750			60				
	1		300			80				
ZPI03S0500WC	3	5	600	65%	<200	50	17	●	●	●
	2.5		500			60				
	1.0		200			80				
ZPI03S0600WC	3	6	500	65%	<200	60	17	●	●	●
	2.5		410			70				
	1.0		160			80				
ZPI03S0900WC	3	9	330	65%	<200	60	17	●	●	●
	2.5		280			70				
	1.0		110			80				
ZPI03S1200WC	3	12	250	65%	<250	60	17	●	●	●
	2.5		210			70				
	1.0		84			80				
ZPI03S1500WC	3	15	200	65%	<300	60	17	●	●	●
	2.5		170			70				
	1.0		67			80				
ZPI03S1800WC	3	18	170	65%	<300	60	17	●	●	●
	2.5		140			70				
	1.0		56			80				
ZPI03S2400WC	3	24	125	65%	<360	60	17	●	●	●
	2.5		105			70				
	1.0		42			80				

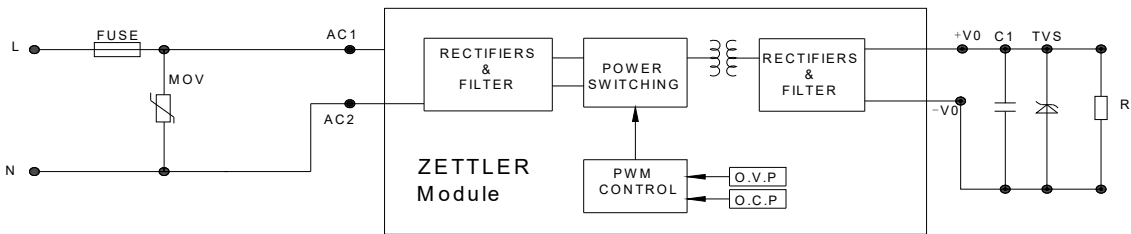
### ELECTRICAL SPECIFICATION

Model No.		ZPI03SXX00WC		
Input	Rated Voltage	100-240VAC		
	Voltage Range	90-264VAC or 120-370VDC		
	Frequency (Hz)	47-63 Hz		
	Current (Full load)	115VAC	230VAC	
		100mA	65mA	
	Inrush Current (<500us)	10A	20A	
	No Load Loss	0.2W Max@230VAC		
HOT PLUG	Unavailable			
Output	Voltage (V)	Refer to "Model List"		
	Current (mA) max.	Refer to "Model List"		
	Voltage Accuracy	±5% (±6% for 3.3VDC output only)		
	Line Regulation	±3% (±5% for 3.3VDC output only)		
	Load Regulation	±5% (±6% for 3.3VDC output only)		
	Minimum Load (mA)	0		
	Ripple & Noise (mV)	Refer to "Model List"		
	Efficiency (typ.)	Refer to "Model List"		
	Start-up Time	3S		
	Hold up Time	5mS min		
Protection	Over Current Protection	≥120%Io Self-recovery		
	Short Circuit Protection	Hiccup ,continuous ,short capable, self-recovery		
Environment	Operating Temperature	-25°C...(Refer to the MODEL LIST)		
	Operating Humidity	10-90% RH		
	Storage Temperature	-25°C...+85°C		
	Storage Humidity	5-95% RH		
	Temperature Coefficient	±0.05%/°C (0~50°C)		
Physical	Case Material	Plastic (UL 94V-0 rated)		
	Weight	17g (ref.)		
Safety & EMC	Dielectric Strength	I/P-O/P : 3600VAC		
	Protection against electric shock	Class II construction <input type="checkbox"/>		
	Safety Standards	Compliance With UL/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 EN55035		
Reliability Requirement	MTBF	300Khrs Min MIL-HDBK-217F (25°C)		
	Burn-In Test	The unit shall be burned in for 2~4 hours under 264Vac input and with full load at normal temperature		

## PRODUCT CHARACTERISTIC CURVE



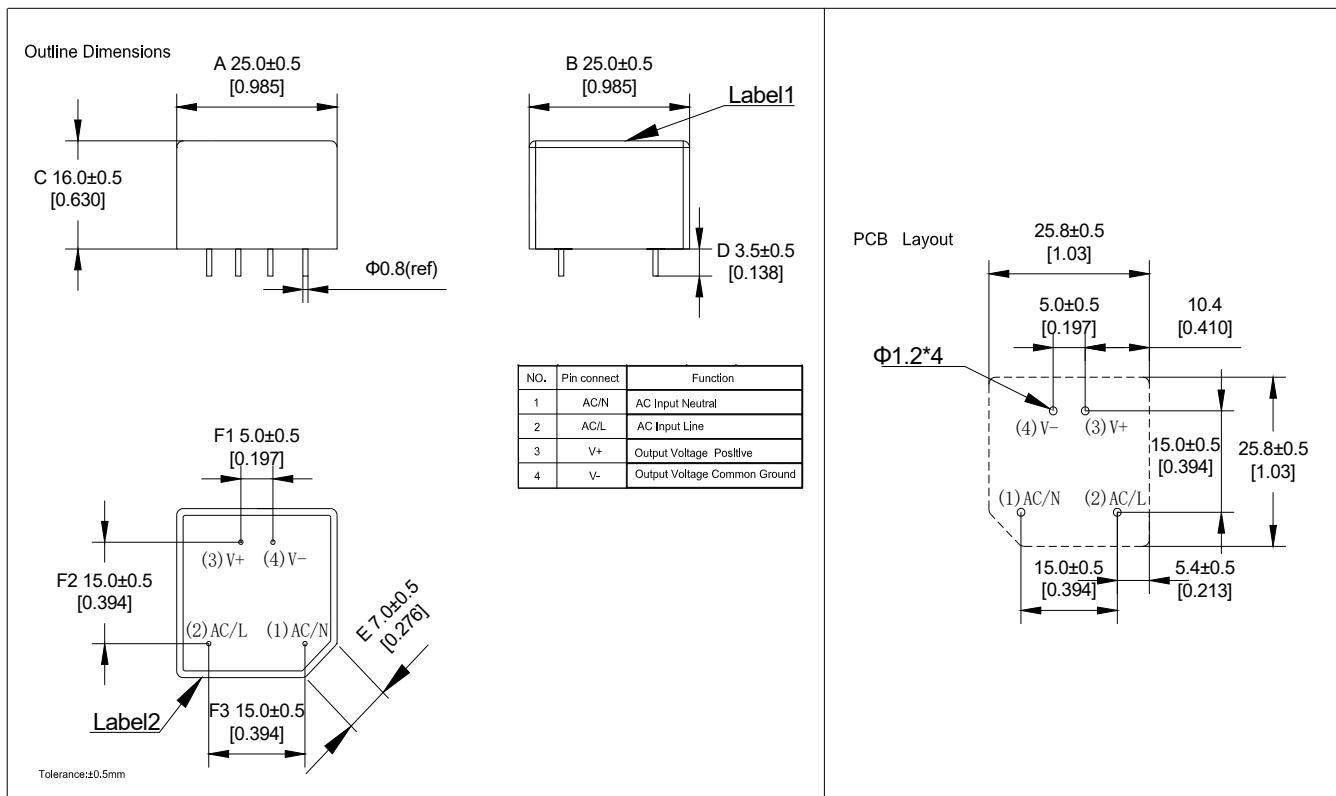
## TYPICAL APPLICATION SCHEMATIC



MOV	FUSE
14D561K	0.5A/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



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