







### **ORDERING CODE**

	<u> </u>	PI <u>03</u>	<u>&gt;</u>	12	<u> </u>	<u> </u>
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						

Issue Date:2021.11.22



#### **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℃)

• 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

### **APPLICATIONS**

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

### **MODEL LIST**

	Output	DC	Rated	Efficiency	Max. Ripple	Ambient	Weight	Certificate		
Model No.	Power	Voltage	Current	230VAC	&Noise	TEMP.	(g)	UL	TUV	СВ
	(W)	(V)	(mA)	(Typ.)	(mV) (°C)		(9)	OL	100	СВ
	2.75		830			50				
ZPI03S0300WC	2.5	3.3	750	65%	<200	60	17	•	•	•
	1		300			80				
	3		600			50				
ZPI03S0500WC	2.5	5	500	65%	<200	60	17	•	•	•
	1.0		200			80				
	3		500	65%	<200	60	17	•	•	•
ZPI03S0600WC	2.5	6	410			70				
	1.0		160			80				
ZPI03S0900WC	3		330	65%	<200	60	17	•	•	•
	2.5	9	280			70				
	1.0		110			80				
	3		250			60				
ZPI03S1200WC	2.5	12	210	65%	<250	70	17	•	•	•
	1.0		84			80				
	3		200			60				
ZPI03S1500WC	2.5	15	170	65%	<300	70	17	•	•	•
	1.0		67			80				
	3		170			60				
ZPI03S1800WC	2.5	18	140	65%	<300	70	17	•	•	•
	1.0		56			80				
	3		125			60				
ZPI03S2400WC	2.5	24	105	65%	<360	70	17	•	•	•
	1.0		42			80				

Issue Date:2021.11.22 2



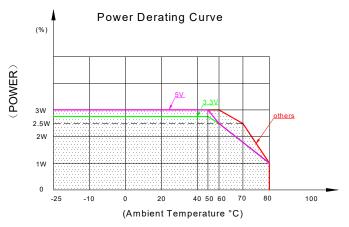
## **ELECTRICAL SPECIFICATION**

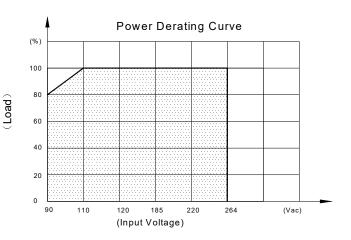
	Model No.	ZPI03SXX	00WC				
	Rated Voltage	100-240VAC					
Input	Voltage Range	90-264VAC or 120-370VDC					
	Frequency (Hz)	47-63 Hz					
	Current (Full load)	115VAC 230VAC					
	Current (Full load)	100mA	65mA				
	Inrush Current (<500us)	10A 20A					
	No Load Loss	0.2W Max@230VAC					
	HOT PLUG	Unavailable					
Output	Voltage (V)	Refer to "Model List"					
	Current (mA) max.	Refer to "Model List"					
	Voltage Accuracy	$\pm 5\%$ ( $\pm 6\%$ for 3.3VDC output only)	$\pm 5\%$ ( $\pm 6\%$ for 3.3VDC output only)				
	Line Regulation	$\pm 3\%$ ( $\pm 5\%$ for 3.3VDC output only)					
	Load Regulation	$\pm 5\%$ ( $\pm 6\%$ for 3.3VDC output only)	$\pm 5\%$ ( $\pm 6\%$ 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	38					
	Hold up Time	5mS min					
Protection	Over Current Protection	≥120%lo Self-recovery					
Short Circuit Protection		Hiccup ,continuous ,short capable, self-recovery					
	Operating Temperature	-25°C(Refer to the MODEL LIST)					
	Operating Humidity	10-90% RH					
Environment	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)					
Tityoloai	Weight 17g (ref.)						
	Dielectric Strength	I/P-O/P : 3600VAC					
	Protection against electric shock	Class II construction					
Safety & EMC -	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,	Need to add external EMC component				
	Livii	EN61000-3-2, EN61000-3-3	(Refer to the Schematic)				
	EMS (Noise Immunity)	Compliance With EN55035	(1.6.5. to the continue)				
Reliability	MTBF	300Khrs Min MIL-HDBK-217F(25°C)	300Khrs Min MIL-HDBK-217F(25°C)				
Requirement	Burn-In Test	The unit shall be burned in for 2~4 hours under 264Vac input and with full load at normal					
,	24 11 1000	temperature					

Issue Date:2021.11.22 3

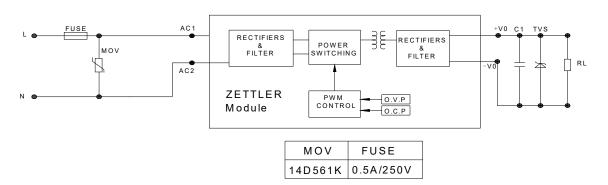
# ZETTLER

### PRODUCT CHARACTERISTIC CURVE



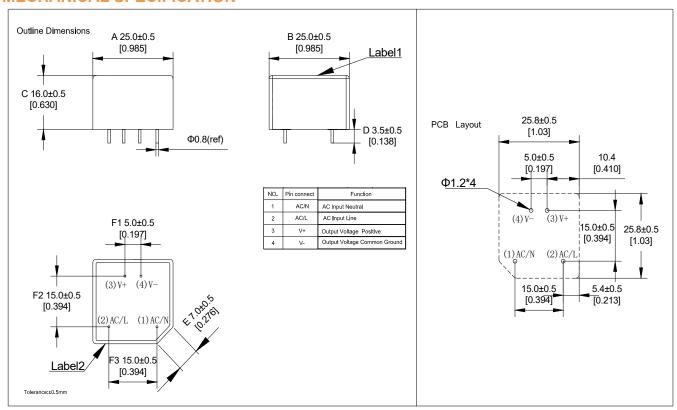


### TYPICAL APPLICATION SCHEMATIC



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

### **MECHANICAL SPECIFICATION**



Issue Date:2021.11.22 4