ZETTLER

ORDERING CODE

ZP   10   S   12   00   W

Example:

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

Output Power (W)
03=3W
20=20W

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

First Output Voltage
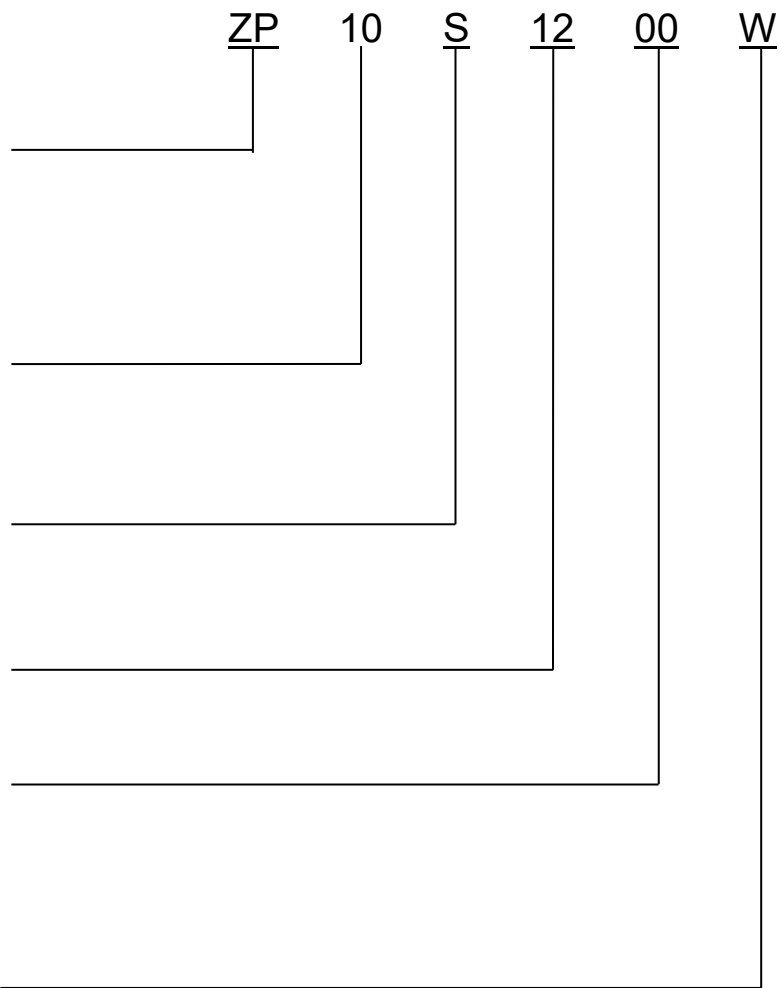05=5V, 12=12V

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

Input AC Voltage Range
W=Wide Voltage Input
H=High Voltage Input (≥165VAC)
L=Low Voltage Input (＜165VAC)

FEATURES

● PCB mounted switching Power module

● AC input voltage range: 85VAC~265VAC

● DC input voltage range: 100VDC~370VDC

● Ambient temperature range: -25℃~70℃

● Storage temperature range: -25℃~85℃

● Leakage current (Input :305VAC):＜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

● ClassⅡ Construction

APPLICATIONS

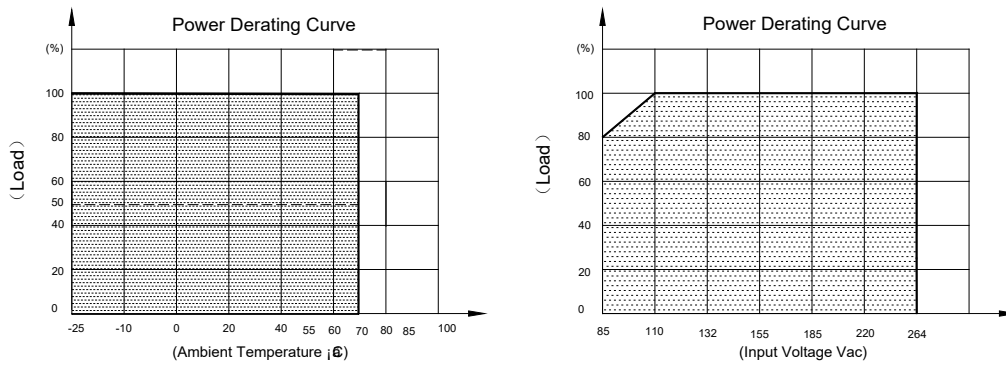This series could be widely applied in the LED, light control, Instrument, smart home and other home appliances.

MODEL LIST

Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple&Noise (max)	Ambient TEMP(℃)	Weight	Certificate		
								TUV	CB	CE
ZP10S0300W	10W	3.3Vdc	3000mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S0500W	10W	5 Vdc	2000mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S0600W	10W	6 Vdc	1670mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S0700W	10W	7.5Vdc	1330mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S0800W	10W	8 Vdc	1250mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S0900W	10W	9 Vdc	1110mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S1000W	10W	10Vdc	1000mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S1200W	10W	12Vdc	830mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S1500W	10W	15Vdc	660mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S1800W	10W	18Vdc	550mA	72%	＜1% Vout	70	70g	●	●	●
ZP10S2400W	10W	24Vdc	420mA	72%	＜1% Vout	70	70g	●	●	●

ELECTRICAL SPECIFICATION

Model No.	ZP10SXX00W	
Input	Rated Voltage	100-240VAC	
	Voltage Range	85-265VAC or 100~370VDC	
	Frequency (Hz)	47-63 Hz	
	Current (Full load)	115VAC	230VAC
		200mA	120mA
	Inrush Current (<500us)	20A	40A
	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	±3%	
	Line Regulation	±0.5%	
	Load Regulation	±0.5%	
	Minimum Load (mA)	0	
	Ripple & Noise	Refer to "Model List"	
	Efficiency（typ.）	Refer to "Model List"	
	Start-up Time	3S	
	Hold up Time	62.4ms/230Vac ,10.6ms/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	-25°C…+85°C	
	Storage Humidity	5-95% RH	
	Temperature Coefficient	±0.05%/°C（0~85℃）	
Physical	Case Material	Plastic （UL 94V-0 rated）	
	Weight	70g（ref.）	
Safety & EMC	Dielectric Strength	I/P-O/P : 3600VAC	
	Safety Standards	Compliance With UL/EN62368-1 ,EN61558-2-16	
	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℃）	
	Burn-In Test	The unit shall be burned in for 2~4 hours under 264Vac input and DC with full load at normal temperature	

PRODUCT CHARACTERISTIC CURVE

Power Derating Curve

(%)
(Load)
(Ambient Temperature ℃)

Power Derating Curve

(%)
(Load)
(Input Voltage Vac)

TYPICAL APPLICATION SCHEMATIC
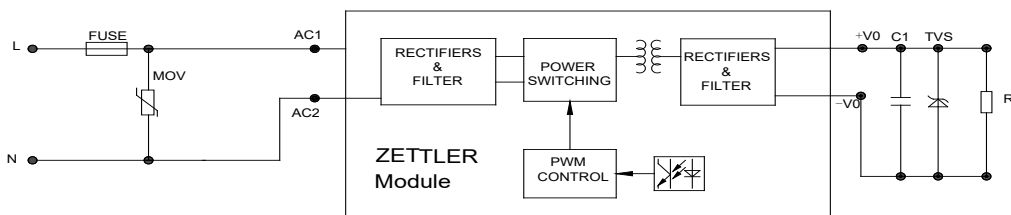
ITEM	MOV	FUSE
1~2W	14D561K	1A/250V
3-10W	14D561K	2A/250V
10~20W	14D561K	3.15A/250V

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

MECHANICAL SPECIFICATION

Outline Dimensions

PCB Layout

NO.	Pin connect	Function
1	L	AC Input Line
2	N	AC Input Neutral
3	+VO	Output Voltage Positive
4	GND	Output Voltage Common Ground