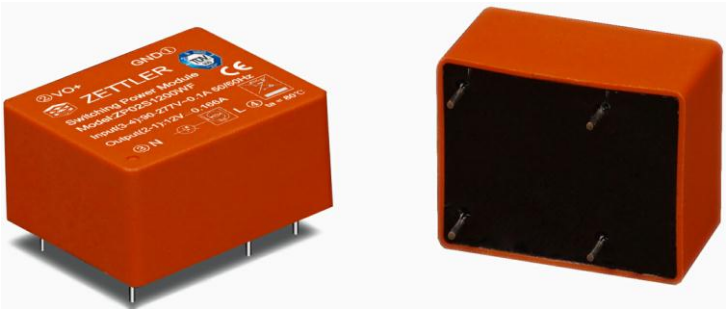


ORDERING CODE

ZP 02 S 12 00 W F

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 (⩾165VAC)

L=Low Voltage Input (＜165VAC)

Additional Case Type

Example

A: A Type case

B: B Type case…

FEATURES

- PCB mounted switching Power module
- AC input voltage range: 90VAC~277VAC
- DC input voltage range: 100VDC~390VDC
- Ambient temperature range:-25℃~85℃
- Storage temperature range:-40℃~105℃
- Leakage current (input :277VAC):＜0.1mA
- Isolation voltage: input –Output≥3000Vac 60S
- Insulation Resistance: Input –Output 500VDC≥100M Ohms
- MTBF(at 25℃ 70%RH environment):＞300000hrs
- Compact size, easy installation
- High efficiency Low standby power consumption, environment-friendly
- Built-in output overcurrent protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55022 class B standard
- Insulation: class Ⅱ

APPLICATIONS

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

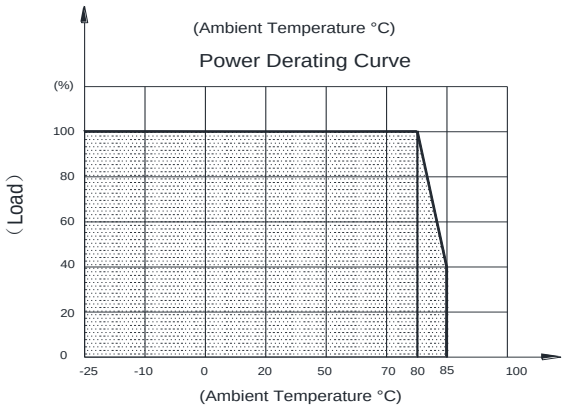
MODEL LIST

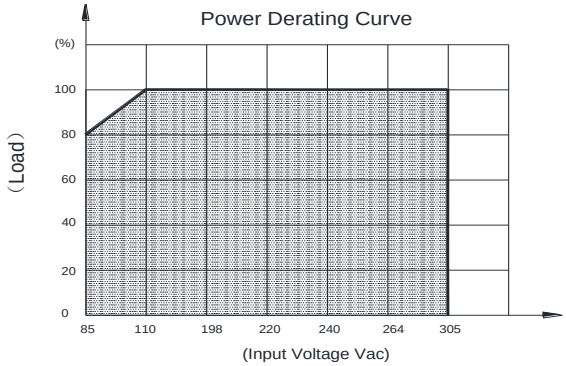
Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple &Noise (max)	Ambient TEMP(℃)	Weight	Certificate
								TUV
ZP02S0300WF	2W	3.3Vdc	606mA	65%	＜5% Vout	80	16.5g	●
ZP02S0500WF	2W	5 Vdc	400mA	70%	＜4% Vout	80	16.5g	●
ZP02S0600WF	2W	6 Vdc	333mA	70%	＜4% Vout	80	16.5g	●
ZP02S0700WF	2W	7.5Vdc	266mA	75%	＜3% Vout	80	16.5g	●
ZP02S0900WF	2W	9Vdc	222mA	75%	＜3% Vout	80	16.5g	●
ZP02S1200WF	2W	10Vdc	166mA	75%	＜3% Vout	80	16.5g	●
ZP02S1500WF	2W	12Vdc	133mA	75%	＜2% Vout	80	16.5g	●
ZP02S1800WF	2W	15Vdc	111mA	75%	＜2% Vout	80	16.5g	●
ZP02S2400WF	2W	18Vdc	83mA	75%	＜2% Vout	80	16.5g	●

ELECTRICAL SPECIFICATION

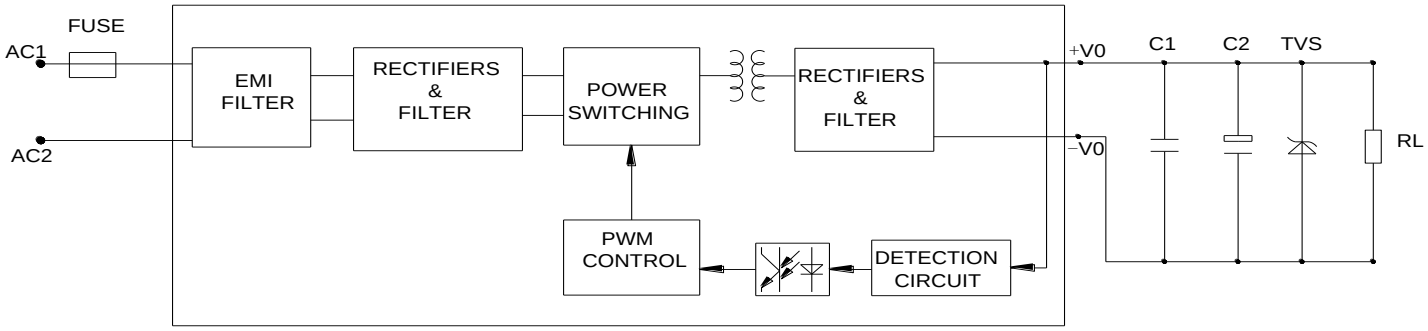
Item			Specification	
Input	Input Voltage Range		90~277Vac or 100~390Vdc	
	AC Input Frequency Range		47~63Hz	
	Input Current		115Vac	230Vac
			25mA	18mA
	Inrush Current		115Vac	230Vac
			6A	10A
	Stand-by Power Consumption		0.15W Max	
	Recommended External Input Fuse		1A/250V (Time lag)	
	Hot Plug		(Unavailable)	
Output	Output Voltage Accuracy		±5% (Typ.)	
	Line Regulation		±1%	
	Load Regulation		±1%	
	Temperature Drift Factor		±0.05%/℃ (0-85℃)	
	Min. Load		0	
	Set-Up time At Full Load		17.2ms/230Vac,27.7ms/115Vac	
	Hold-up Time At Full Load		168ms/230Vac ,59ms/115Vac	
Protection Characteristics	Over-Circuit Protection		≥120%Io Self-recovery	
	Short Circuit Protection		Hiccup ,continuous ,short capable, self-recovery	
Ambient	Ambient Temperature		- 25℃ ~ 85℃ (Refer to derating curve)	
	Ambient Humidity		10~90% RH (No Condensing) at full load	
	Storage Temperature		- 40℃ ~ 105℃	
	Storage Humidity		5%~95%	
Safety &EMC requirement	Dielectric Strength		Input-Output ≥3000Vac 5mA 60S	
	Reference Safety Standards		UL/CUL60920 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16	
	EMI Built-in EMI filter	CE	Meet CISPR22/EN55022, CLASS B	
		RE	Meet CISPR22/EN55022, CLASS B	
Reliability Requirement	MTBF(MIL-HDBK-217F)		300Khrs Min @230VAC input 25℃	
	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



Note; The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meet EMC directives.

Optional recommendations on external components:

C1 from output filter is electrolytic capacitor, High frequency low resistance capacitance is recommended; withstand voltage derating over 80%.

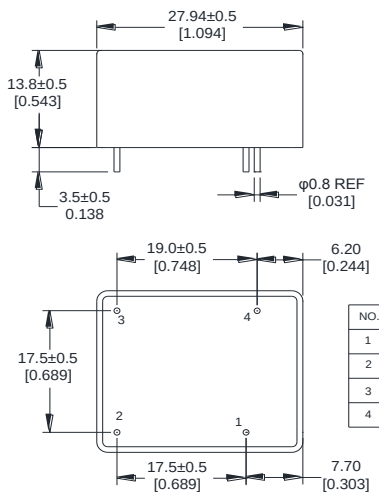
C2 from output filter is ceramic capacitor, to remove high frequency noise.

TVS from output filter is to protect the rear circuit.

Fuse from input filter is to meet safety requirement. Type: 1A/250V Slow-Blow

MECHANICAL SPECIFICATION

Outline Dimensions



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

PC Board Layout