

ORDERING CODE

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

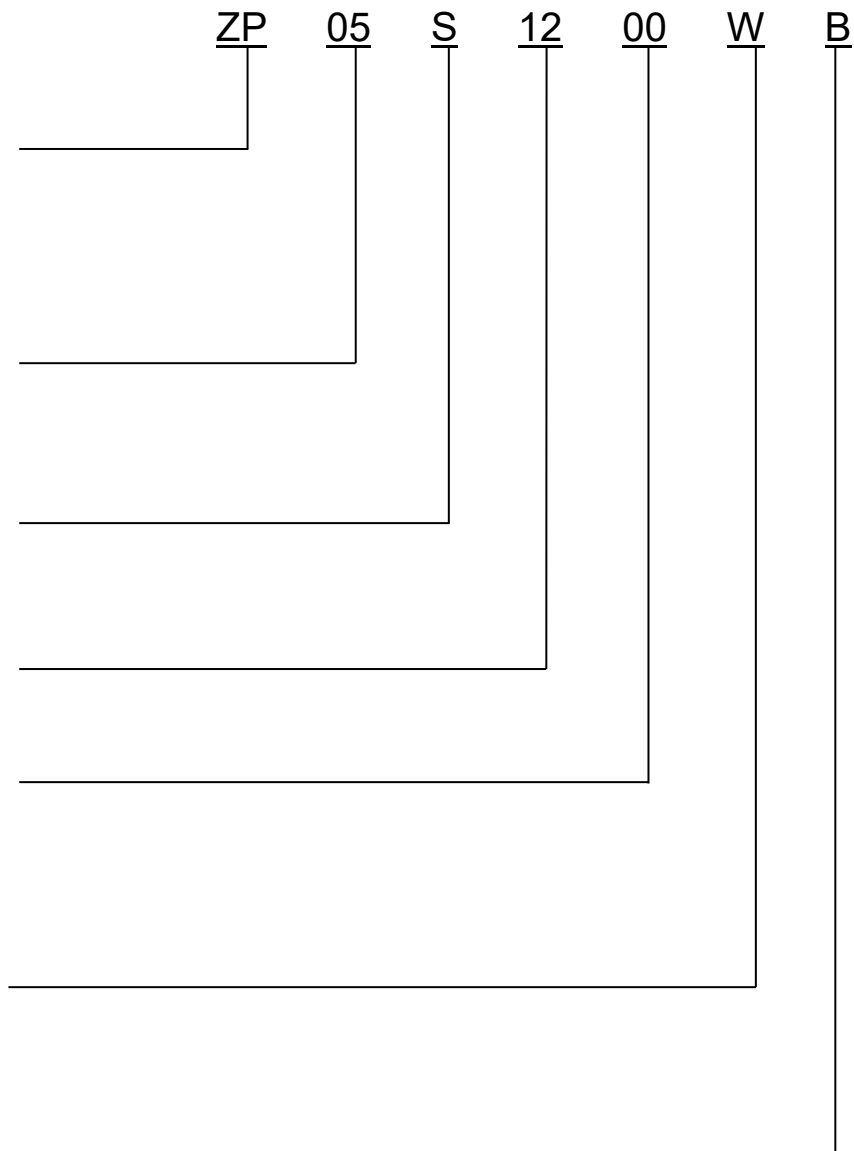
H=High Voltage Input ($\geq 165\text{VAC}$)

L=Low Voltage Input ($< 165\text{VAC}$)

Case Dimension

A: A Type case

B: B Type case...



FEATURES

- PCB mounted switching Power module
- AC input voltage range: 90VAC~264VAC
- DC input voltage range: 100VDC~370VDC
- Ambient temperature range: -25°C~50°C
- Storage temperature range: -40°C~105°C
- Leakage current (Input :265VAC): <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.

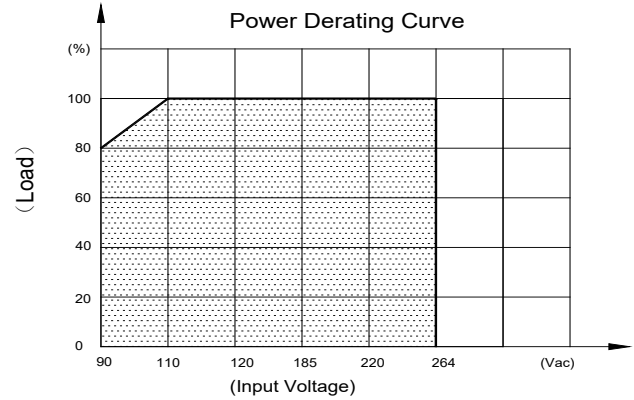
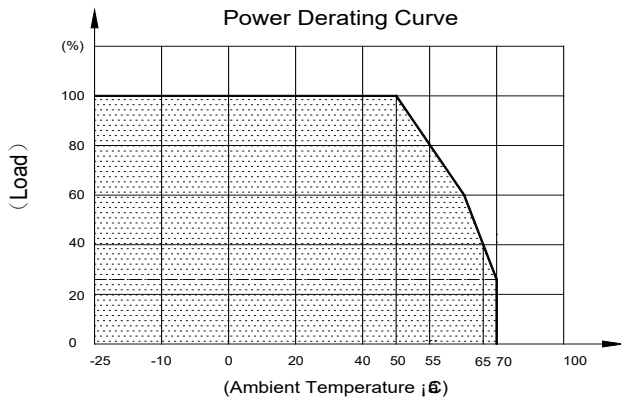
MODEL LIST

| Model No. | Output Power | DC Voltage | Rated Current | Efficiency 230VAC, % Typ. | Ripple&Noise (max) | Ambient TEMP(°C) | Weight | Certificate | | | |
|-------------|--------------|------------|---------------|---------------------------|--------------------|------------------|--------|-------------|-----|----|----|
| | | | | | | | | UL | TUV | CE | CB |
| ZP05S0500WB | 5W | 5 Vdc | 1000mA | 70% | <5% Vout | 50 | 30g | ● | ● | ● | ● |
| ZP05S0600WB | 5W | 6 Vdc | 830mA | 70% | <5% Vout | 50 | 30g | | ● | ● | |
| ZP05S0700WB | 5W | 7.5Vdc | 670mA | 70% | <5% Vout | 50 | 30g | | | | |
| ZP05S0900WB | 5W | 9Vdc | 550mA | 70% | <5% Vout | 50 | 30g | | | | |
| ZP05S1200WB | 5W | 12Vdc | 420mA | 70% | <5% Vout | 50 | 30g | ● | ● | ● | ● |
| ZP05S1500WB | 5W | 15Vdc | 330mA | 70% | <5% Vout | 50 | 30g | ● | ● | ● | ● |
| ZP05S1800WB | 5W | 18Vdc | 280mA | 70% | <5% Vout | 50 | 30g | ● | ● | ● | ● |
| ZP05S2400WB | 5W | 24Vdc | 210mA | 70% | <5% Vout | 50 | 30g | ● | ● | ● | ● |

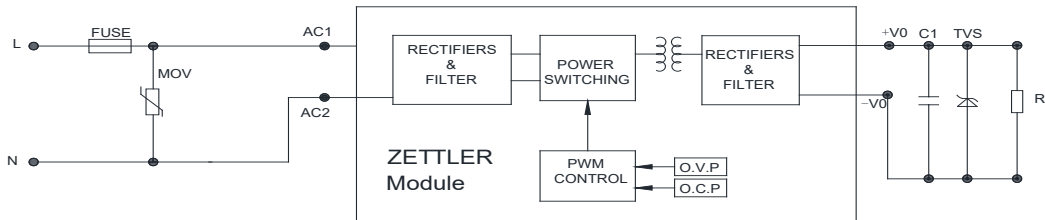
ELECTRICAL SPECIFICATION

| Model No. | | ZP05SXX00WB | | |
|-------------------------|--------------------------|--|--|--|
| Input | Rated Voltage | 100-240VAC | | |
| | Voltage Range | 90-264VAC or 100~370VDC | | |
| | Frequency (Hz) | 47-63 Hz | | |
| | Current (Full load) | 115VAC | 230VAC | |
| | | 100mA | 65mA | |
| | Inrush Current (<500us) | 10A | 20A | |
| | No Load Loss | 0.3W Max@230VAC | | |
| HOT PLUG | Unavailable | | | |
| Output | Voltage (V) | Refer to "Model List" | | |
| | Current (mA) max | Refer to "Model List" | | |
| | Voltage Accuracy | 0-10%: $\pm 7\%$ / 10%-100% : $\pm 5\%$ | | |
| | Line Regulation | $\pm 2\%$ | | |
| | Load Regulation | $\pm 3\%$ | | |
| | Minimum Load (mA) | 0 | | |
| | Ripple & Noise | Refer to "Model List" | | |
| | Efficiency (typ.) | Refer to "Model List" | | |
| | Set-up Time | 38.9ms/230Vac, 68.8ms/115Vac | | |
| | Hold up Time | 63.2ms/230Vac , 12.2ms/115Vac | | |
| Protection | Over Current Protection | $\geq 120\%$ lo Self-recovery | | |
| | Short Circuit Protection | Hiccup ,continuous ,short capable, self-recovery | | |
| Environment | Operating Temperature | -25°C...+50°C @Free air convection | | |
| | Operating Humidity | 10-90% RH | | |
| | Storage Temperature | -40°C...+105°C | | |
| | Storage Humidity | 5-95% RH | | |
| | Temperature Coefficient | $\pm 0.05\%/^{\circ}\text{C}$ (0~50°C) | | |
| Physical | Case Material | Plastic (UL 94V-0 rated) | | |
| | Weight | 30g (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°C) | | |
| | 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



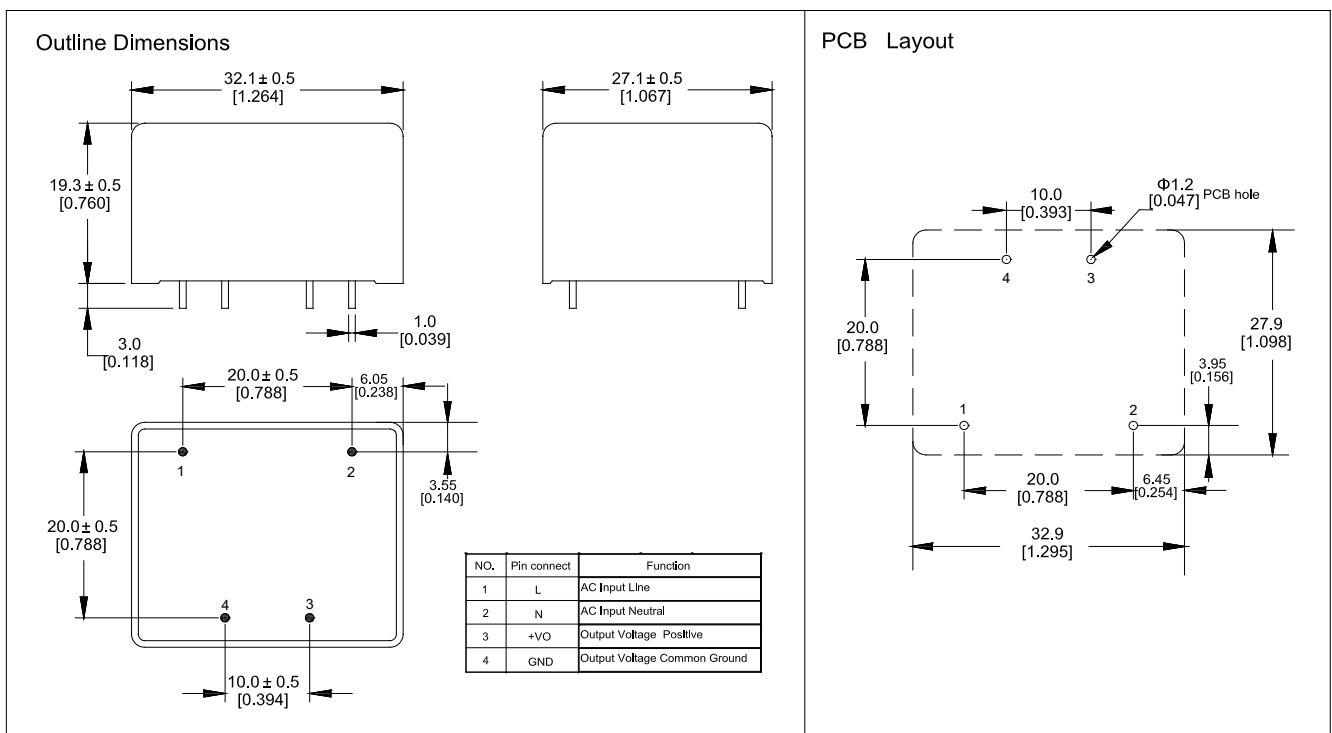
TYPICAL APPLICATION SCHEMATIC



| 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



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