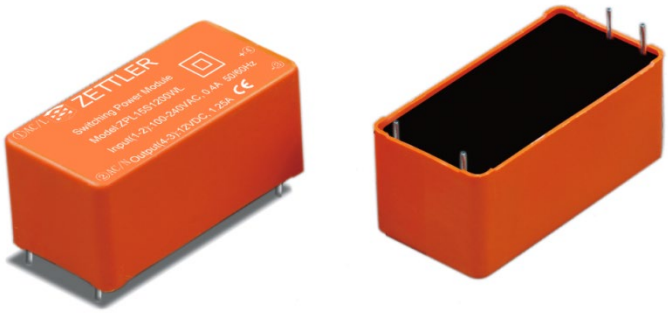


## ORDERING CODE

Example: ZPL 15 S 12 00 W L

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

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)

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℃~50℃
- Storage temperature range: -25℃~85℃
- Leakage current (input :264VAC):＜0.3mA
- Isolation voltage: input –Output≥3000VAC 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, green environmental protection function
- 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.

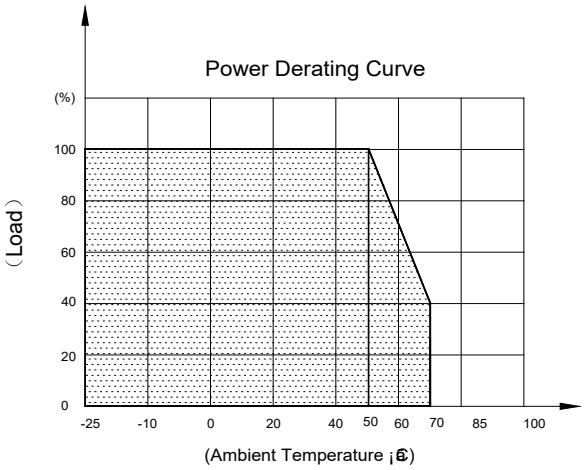
## MODEL LIST

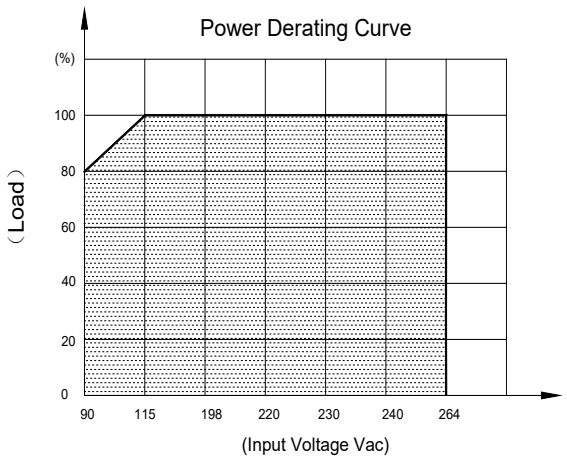
| Model No. | Output Power | DC Voltage | Rated Current | Efficiency 230VAC，% Typ. | Ripple&Noise (max) | Ambient TEMP(℃) | Weight |
|---|---|---|---|---|---|---|---|
| ZPL15S0500WL | 15W | 5Vdc | 3000mA | 78% | ＜200mV | 50 | 62.5g |
| ZPL15S1200WL | 15W | 12Vdc | 1250mA | 82% | ＜200mV | 50 | 62.5g |
| ZPL15S1500WL | 15W | 15Vdc | 1000mA | 82% | ＜200mV | 50 | 62.5g |
| ZPL15S1800WL | 15W | 18Vdc | 833mA | 83% | ＜200mV | 50 | 62.5g |
| ZPL15S2400WL | 15W | 24Vdc | 625mA | 83% | ＜200mV | 50 | 62.5g |

## ELECTRICAL SPECIFICATION

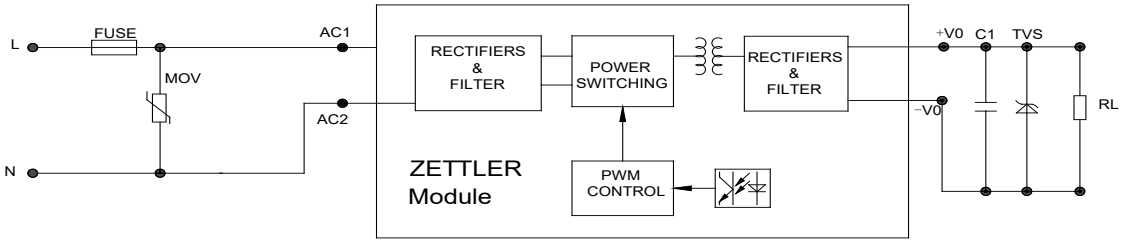
| Model No. | | ZPL15SXX00WL | | |
|---|---|---|---|---|
| Input | Rated Voltage | 100~240VAC | | |
| | Voltage Range | 90-264VAC or 100~370VDC | | |
| | Frequency (Hz) | 47-63 Hz | | |
| | Current (Full load) | 115VAC | 230VAC | |
| | | 350mA | 200mA | |
| | Inrush Current (<500us) | 20A | 40A | |
| | 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 | ±3% | | |
| | Line Regulation | ±1% | | |
| | Load Regulation | ±1% | | |
| | Minimum Load (mA) | 0 | | |
| | Ripple & Noise | Refer to “Model List” | | |
| | Efficiency（typ.） | Refer to “Model List” | | |
| | Set-up Time | 253ms/230VAC,169ms/115VAC | | |
| | Hold up Time | 76.9ms/230VAC ,13.6ms/115VAC | | |
| Protection | Over Current Protection | Hiccup mode | | |
| | Short Circuit Protection | Hiccup mode | | |
| Environment | Operating Temperature | -25°C…+70°C @Free air convection (Refer to the derating curve) | | |
| | Operating Humidity | 20~90% RH ( No Condensing) at full load | | |
| | Storage Temperature | -25°C~85°C | | |
| | Storage Humidity | 10~95% RH | | |
| | Temperature Coefficient | ±0.05%/°C（0~50℃） | | |
| Physical | Case Material | Plastic （UL 94V-0 rated） | | |
| | Weight | 62.5g（REF.） | | |
| Safety & EMC | Dielectric Strength | I/P-O/P : 3000VAC | | |
| | Safety Standards | Compliance With UL/EN62368-1 | | |
| | EMI | Compliance With EN55032, CLASS B<br>EN61000-3-2，EN61000-3-3 | Need to add external EMC component (Refer to the Schematic) | |
| | EMS (Noise Immunity) | Compliance With EN 55035 | | |
| 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 25℃ | | |

## PRODUCT CHARACTERISTIC CURVE



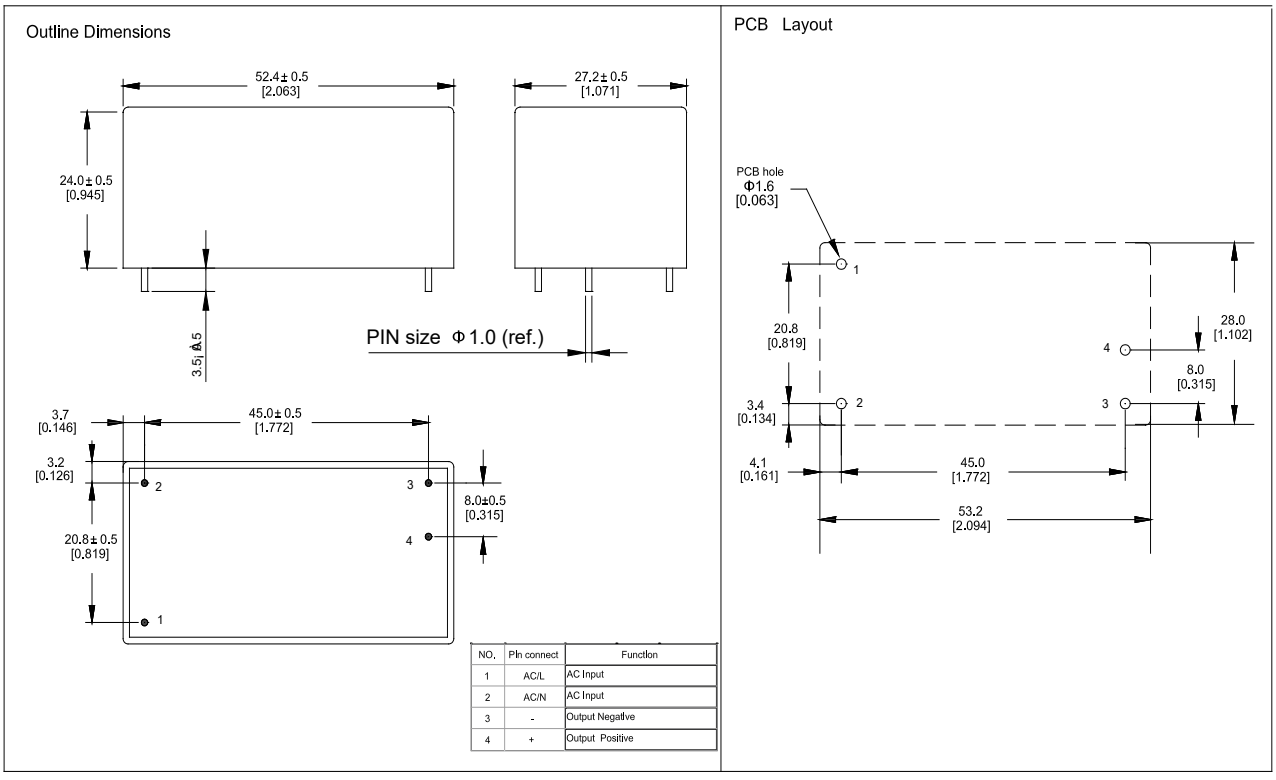

## TYPICAL APPLICATION SCHEMATIC




| 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




| NO. | Pin connect | Function |
|---|---|---|
| 1 | AC/L | AC Input |
| 2 | AC/N | AC Input |
| 3 | - | Output Negative |
| 4 | + | Output Positive |