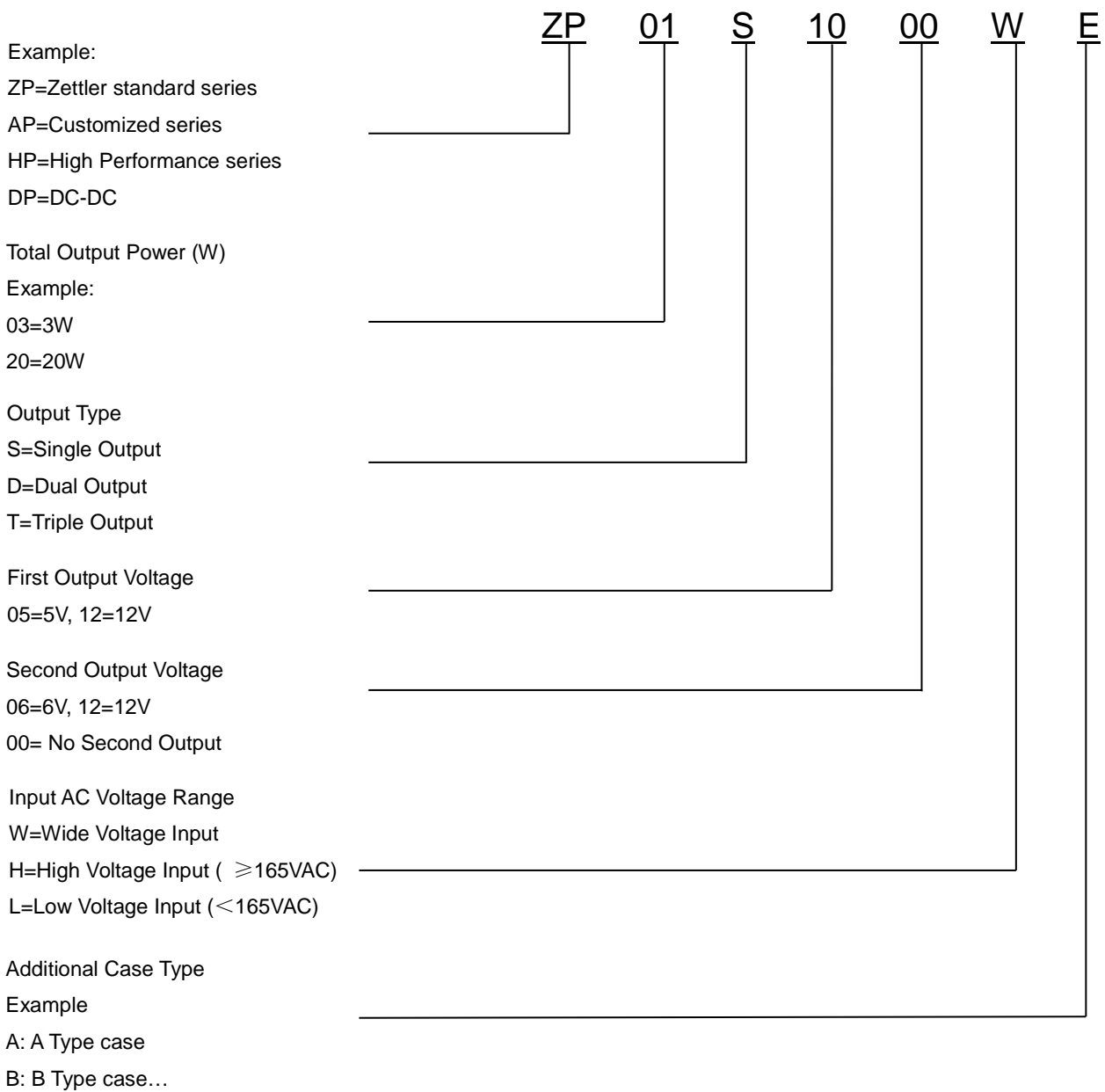




### ORDERING CODE



**FEATURES**

- PCB mounted switching Power module
- AC input voltage range: 90VAC~265VAC
- DC input voltage range: 100VDC~370VDC
- Ambient temperature range:-25°C~85°C
- Storage temperature range:-40°C~105°C
- Leakage current (input :277VAC):<0.1mA
- Isolation voltage: input –Output $\geq$ 3000Vac 60S
- Insulation Resistance: Input –Output 500VDC $\geq$ 100M Ohms
- MTBF(at 25°C 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.

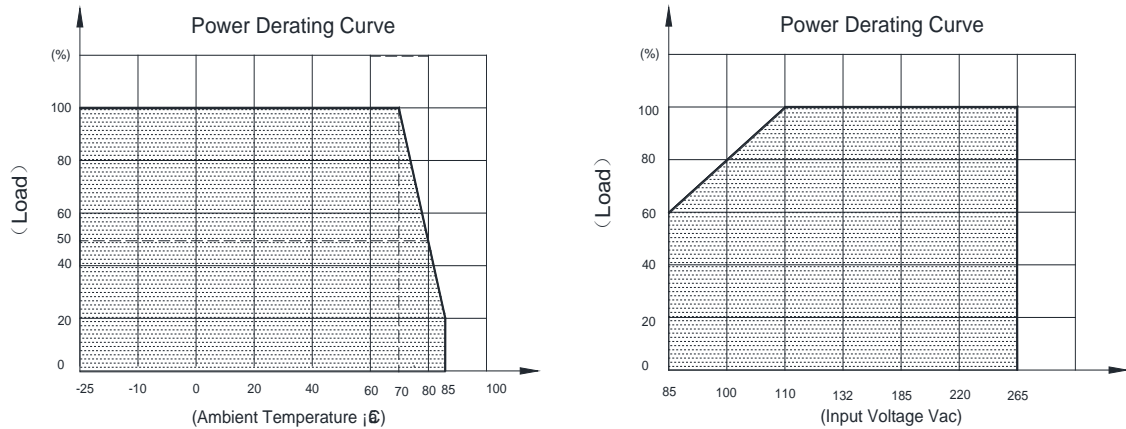
**MODEL LIST**

| Part No.    | Output Power | DC Voltage | Rated Current | Efficiency<br>230VAC, % Typ. | Ripple & Noise<br>(max) | Ambient<br>TEMP(°C) | Weight |
|-------------|--------------|------------|---------------|------------------------------|-------------------------|---------------------|--------|
| ZP01S0300WE | 1W           | 3.3Vdc     | 300mA         | 65%                          | <7% Vout                | 70                  | 16.7g  |
| ZP01S0500WE | 1W           | 5 Vdc      | 200mA         | 66%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S0600WE | 1W           | 6 Vdc      | 167mA         | 68%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S0700WE | 1W           | 7.5Vdc     | 133mA         | 68%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S0800WE | 1W           | 8Vdc       | 125mA         | 70%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S0900WE | 1W           | 9Vdc       | 111mA         | 72%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S1000WE | 1W           | 10Vdc      | 100mA         | 72%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S1200WE | 1W           | 12Vdc      | 85mA          | 72%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S1500WE | 1W           | 15Vdc      | 67mA          | 74%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S1800WE | 1W           | 18Vdc      | 55mA          | 74%                          | <5% Vout                | 70                  | 16.7g  |
| ZP01S2400WE | 1W           | 24Vdc      | 42mA          | 74%                          | <5% Vout                | 70                  | 16.7g  |

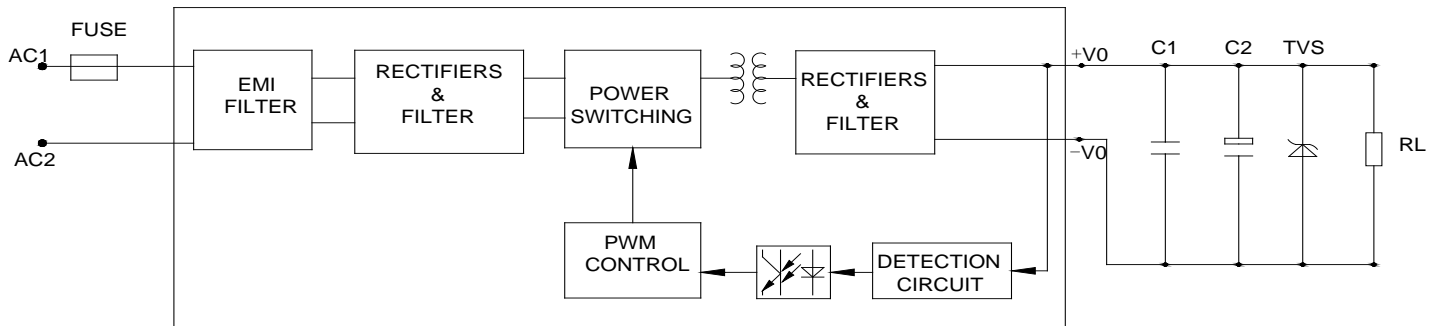
### ELECTRICAL SPECIFICATION

| Item                       |  | Specification  |                               |  |
|----------------------------|--|--|-------------------------------|--|
| Input                      | Input Voltage Range                              | 90~265Vac or 100~370Vdc  |                               |  |
|                            | AC Input Frequency Range                         | 47~63Hz  |                               |  |
|                            | Input Current                                    | 115Vac   | 230Vac                        |  |
|                            |  | 25mA   | 18mA                          |  |
|                            | Inrush Current                                   | 115Vac   | 230Vac                        |  |
|                            |  | 6A   | 10A                           |  |
|                            | Stand-by Power Consumption                       | 0.3W 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%/°C ( 0-85°C )   |                               |  |
|                            | 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°C ~ 85°C (Refer to derating curve)  |                               |  |
|                            | Ambient Humidity                                 | 10~90% RH ( No Condensing) at full load  |                               |  |
|                            | Storage Temperature                              | - 40°C ~ 105°C   |                               |  |
|                            | 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 filter<br>Need an<br>external<br>capacitance | CE   | Meet CISPR22/EN55022, CLASS B |  |
|                            |  | RE   | Meet CISPR22/EN55022, CLASS B |  |
| Reliability Requirement    | MTBF(MIL-HDBK-217F)                              | 300Khrs Min @230VAC input 25°C   |                               |  |
|                            | 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

