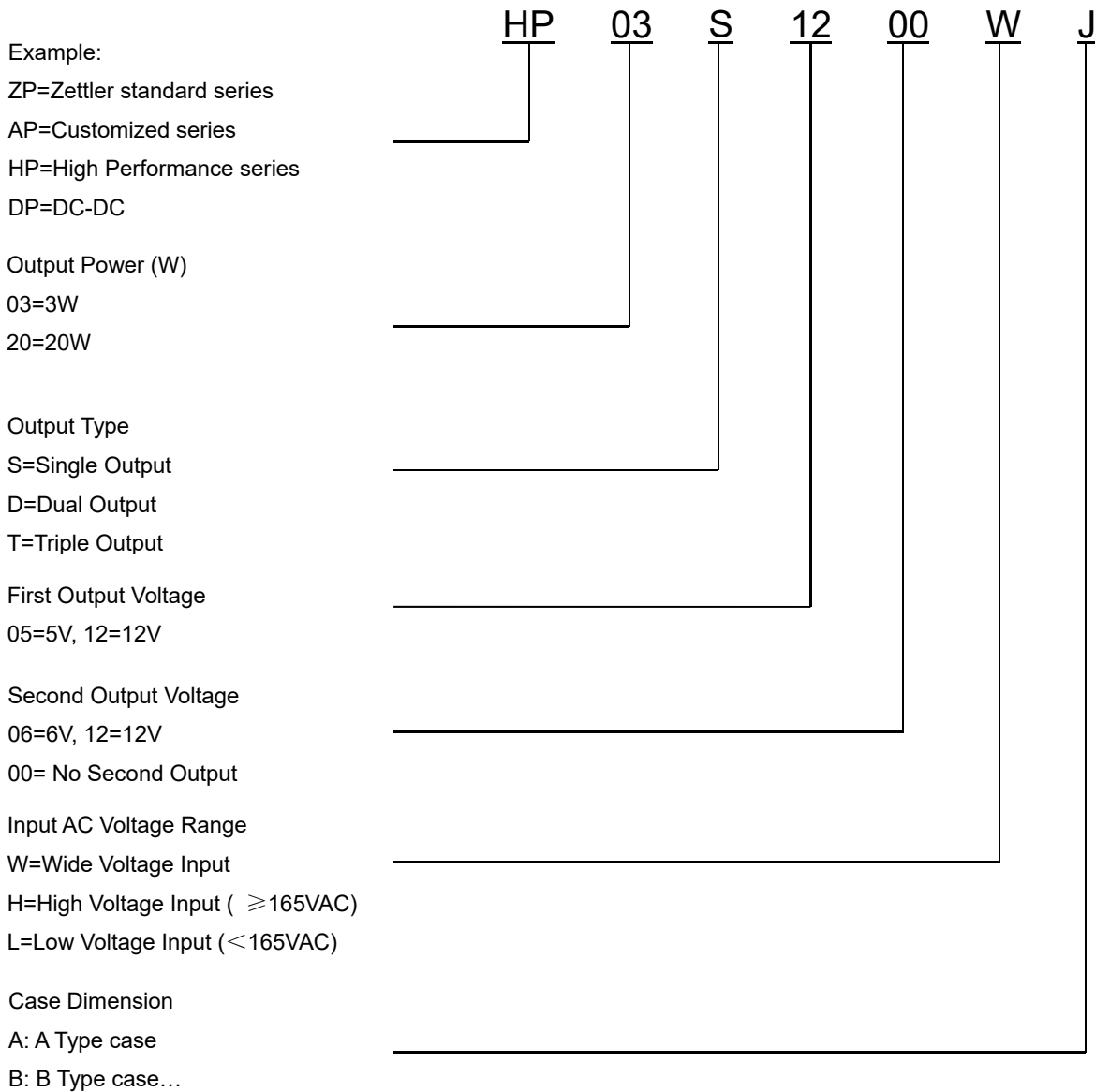


ORDERING CODE (命名规则)



FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range: 85VAC~305VAC
- DC input voltage range: 100VDC~430VDC
- Ambient temperature range: -25°C~85°C
- Storage temperature range: -40°C~105°C
- Leakage current (Input :305VAC): <0.25mA
- Isolation voltage: Input –Output ≥3600VAC 60S
- Insulation Resistance: Input –Output 500VDC ≥100M Ohms
- MTBF: 1000Khrs Min MIL-HDBK-217F (25°C)
- Compact size, easy installation
- High efficiency low standby power consumption <0.15W, 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 (应用)

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

NOTE: Contact Zettler for information on halogen free options

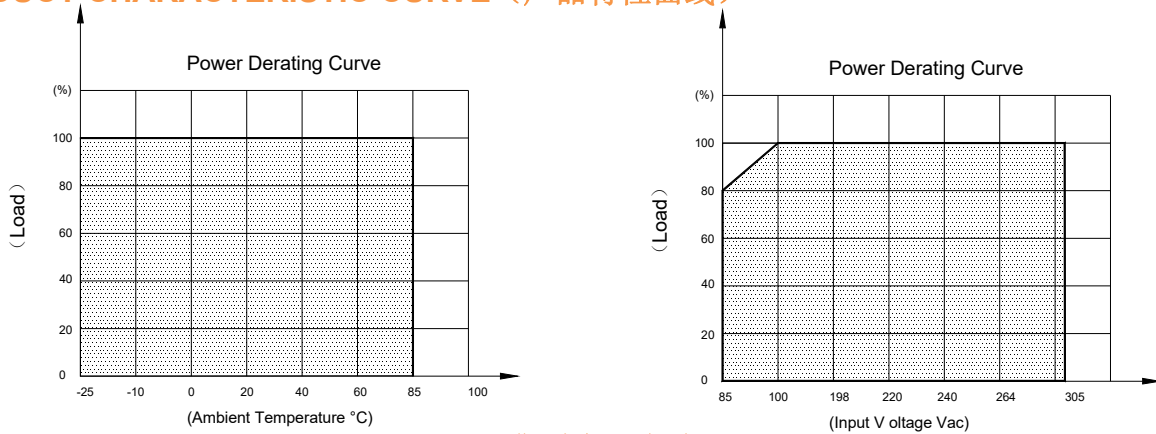
MODEL LIST (型号列表)

| Model No. | Output Power | DC Voltage | Rated Current | Efficiency 230VAC, % Typ. | Ripple&Noise (max) | Ambient TEMP(°C) | Weight | Certificate | | | |
|-------------|--------------|------------|---------------|---------------------------------|-----------------------|---------------------|--------|-------------|-----|----|----|
| | | | | | | | | UL | TUV | CE | CB |
| HP03S0500WJ | 3W | 5Vdc | 600mA | 72% | 100mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S0600WJ | 3W | 6Vdc | 500mA | 72% | 100mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S0700WJ | 3W | 7.5Vdc | 400mA | 74% | 100mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S0800WJ | 3W | 8Vdc | 375mA | 74% | 100mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S0900WJ | 3W | 9Vdc | 333mA | 74% | 100mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S1000WJ | 3W | 10Vdc | 300mA | 76% | 150mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S1200WJ | 3W | 12Vdc | 250mA | 76% | 150mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S1500WJ | 3W | 15Vdc | 200mA | 77% | 200mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S1800WJ | 3W | 18Vdc | 166mA | 78% | 250mVp-p | 85 | 23.8g | ● | ● | ● | ● |
| HP03S2400WJ | 3W | 24Vdc | 125mA | 78% | 250mVp-p | 85 | 23.8g | ● | ● | ● | ● |

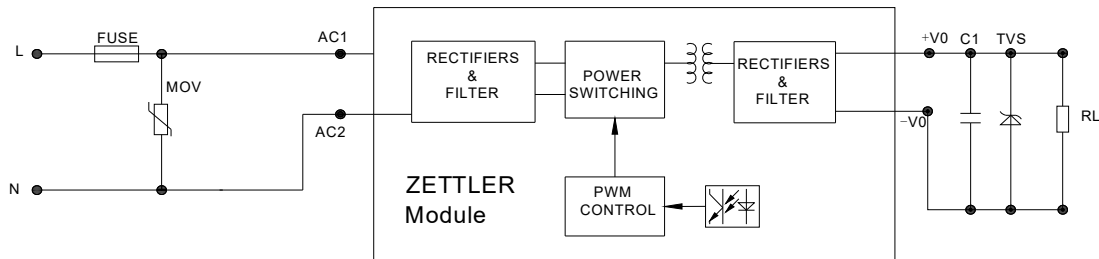
ELECTRICAL SPECIFICATION (电性能参数)

| Model No. / 型号 | | HP03SXX00WJ | | |
|-------------------------------------|---------------------------------|--|--|--------|
| Input 输入参数 | Rated Voltage / 额定电压 | 100-277VAC | | |
| | Voltage Range / 输入电压范围 | 85-305VAC or 100-430VDC | | |
| | Frequency (Hz) / 输入频率范围 | 47-63 Hz | | |
| | Current (Full load) / 输入电流 | 115VAC | 230VAC | 277VAC |
| | | 70mA | 40mA | 35mA |
| | Inrush Current (<500us) / 冲击电流 | 10A | 20A | |
| | No Load Loss / 待机功耗 | 0.15W Max@230VAC | | |
| HOT PLUG / 热拔插 | Unavailable | | | |
| Output 输出参数 | Voltage (V) / 输出电压 | Refer to "Model List" | | |
| | Current (mA) max. / 输出额定电流 | Refer to "Model List" | | |
| | Voltage Accuracy / 输出电压精度 | (5V±5%) ±3% | | |
| | Line Regulation / 线性调节率 | ±0.5% | | |
| | Load Regulation / 负载调节率 | ±0.5% | | |
| | Minimum Load (mA) / 最小负载 | 0 | | |
| | Ripple & Noise / 输出纹波 | Refer to "Model List" | | |
| | Efficiency (typ.) / 工作效率 | Refer to "Model List" | | |
| | Set-up Time / 开机时间 | ≤50ms/230VAC, ≤30ms/115VAC | | |
| | Hold up Time / 掉电保持时间(典型值) | >40ms/230VAC, 12ms/115VAC | | |
| Protection 保护特性 | Over Current Protection / 过流保护 | ≥120%Io Self-recovery | | |
| | Short Circuit Protection / 短路保护 | Hiccup ,continuous ,short capable, self-recovery | | |
| Environment 环境 | Operating Temperature / 工作温度 | -25°C...+85°C @Free air convection | | |
| | Operating Humidity / 工作湿度 | 10-90% RH | | |
| | Storage Temperature / 存储温度 | -40°C...+105°C | | |
| | Storage Humidity / 存储湿度 | 5-95% RH | | |
| | Temperature Coefficient/温度漂移系数 | ±0.03%/°C (0~85°C) | | |
| Physical 外观结构 | Case Material / 外壳材质 | Plastic (UL 94V-0 rated) | | |
| | Weight / 产品净重 | 23.8g (ref.) | | |
| Safety & EMC 安全认证及 电磁兼容 | Dielectric Strength / 绝缘强度 | I/P-O/P : 3600VAC | | |
| | Safety Standards / 安全标准 | Compliance With UL/EN62368-1, EN61558-2-16 | | |
| | EMI / 电磁兼容 | Compliance With EN55032 CLASS B, EN61000-3-2, EN61000-3-3 | | |
| | EMS (Noise Immunity)/ 电磁抗干扰 | Compliance With EN55035 | Need to add external EMC component (Refer to the Schematic) | |
| Reliability Requirement 可靠性要求 | MTBF/平均故障间隔时间 | 1000Khrs Min MIL-HDBK-217F (25°C) | | |
| | Burn-In Test/ 老化测试 | The unit shall be burned in for 2~4 hours under 264Vac input and DC with full load at normal temperature | | |

PRODUCT CHARACTERISTIC CURVE (产品特性曲线)



TYPICAL APPLICATION SCHEMATIC (典型应用电路)



| ITEM | MOV | FUSE |
|--------|---------|------------|
| 1~2W | 14D561K | 1A/300V |
| 3-10W | 14D561K | 2A/300V |
| 10~20W | 14D561K | 3.15A/300V |

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

MECHANICAL SPECIFICATION (尺寸图)

