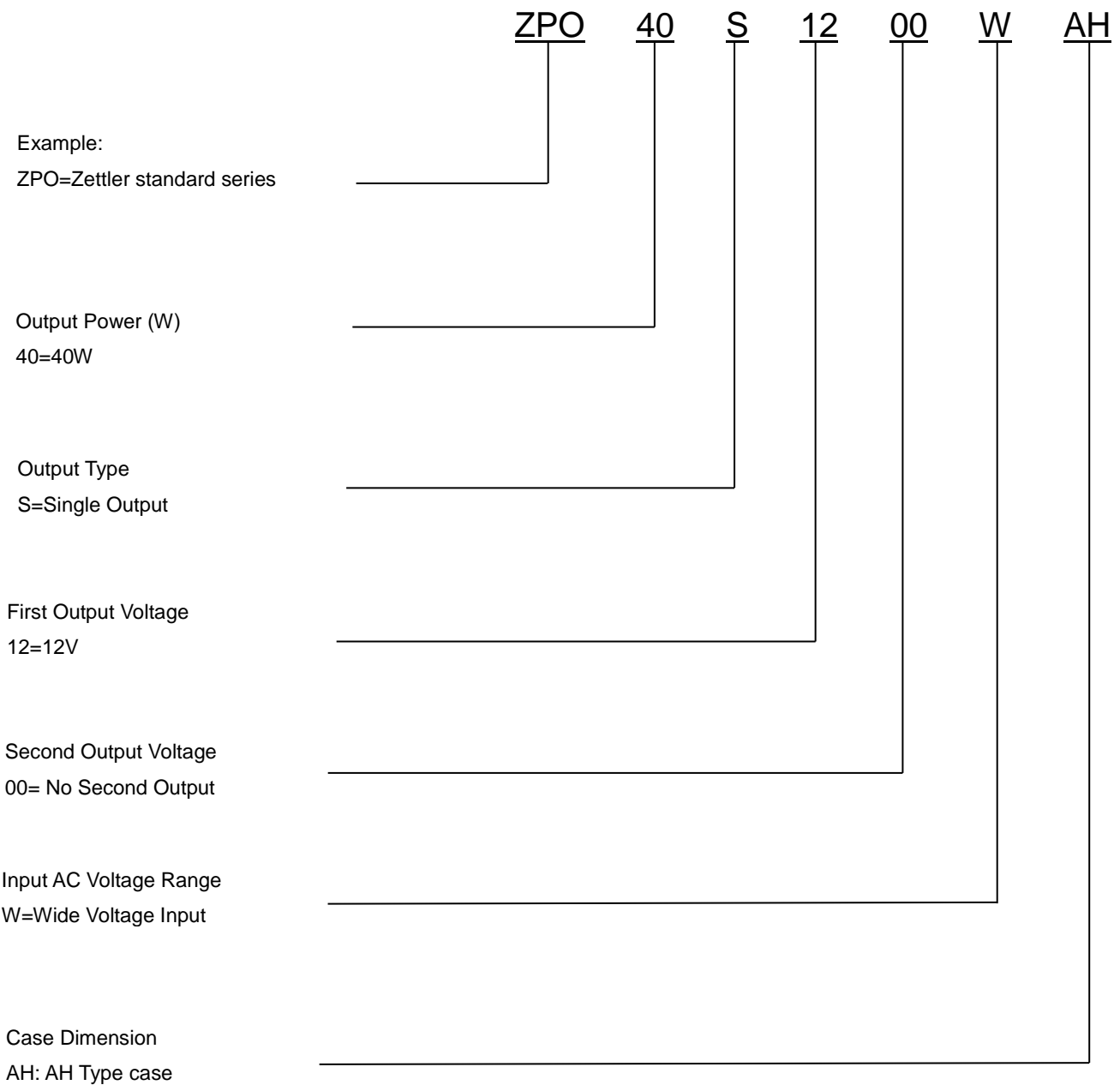




ORDERING CODE (命名规则)



FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range: 90V-305V
- DC input voltage range: 120V-430V
- Ambient temperature range: -40°C ~85°C
- Storage temperature range: -40°C ~85°C
- Leakage current (input :277VAC):<0.25mA
- Overvoltage Category: OVC IV (EN IEC61558)
- Altitude: 5000m
- Isolation voltage: Input –Output \geq 6275VAC
- Insulation Resistance: Input –Output 500VDC \geq 100M Ohms
- MTBF: 300Khrs Min MIL-HDBK-217F (25°C)
- 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
- Insulation: Class II

APPLICATIONS (应用)

This series could be widely applied in Industry.

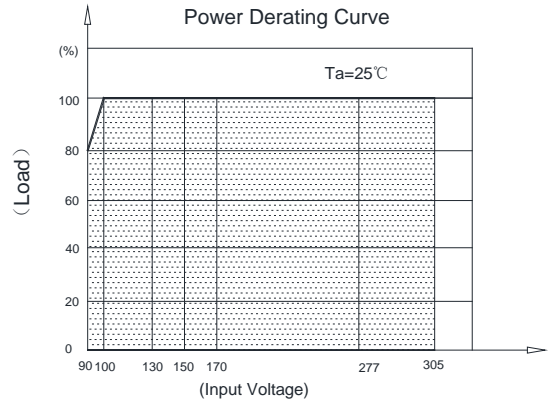
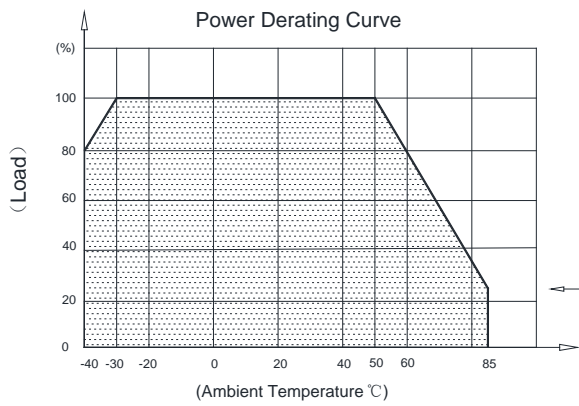
MODEL LIST (型号列表)

| Model No. | Output Power | DC Voltage | Rated Current | Efficiency 230VAC, % Typ. | Capacitive Load(max) | Ripple &Noise (max) | Ambient TEMP(°C) | Weight | Certificate | | |
|---------------|--------------|------------|---------------|------------------------------|----------------------|------------------------|---------------------|--------|-------------|-----|----|
| | | | | | | | | | UL | TUV | CB |
| ZPO40S1200WAH | 40W | 12Vdc | 3333mA | > 85% | 6000uF | < 120mV | 50 | 120g | | √ | |
| ZPO40S1500WAH | 40W | 15Vdc | 2666mA | | 5000uF | < 150mV | 50 | 120g | | √ | |
| ZPO40S2400WAH | 40W | 24Vdc | 1666mA | | 1200uF | < 240mV | 50 | 120g | | √ | |
| ZPO40S4800WAH | 40W | 48Vdc | 833mA | | 820uF | < 480mV | 50 | 120g | | √ | |

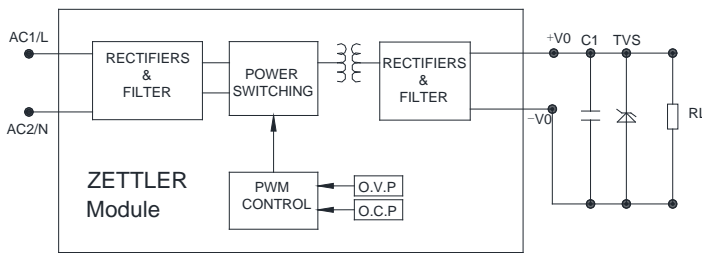
ELECTRICAL SPECIFICATION (电性能参数)

| Model No. / 型号 | | ZPO40SXX00WAH | | |
|-------------------------------------|---------------------------------|---|------------------------------------|-----------|
| Input 输入参数 | Rated Voltage / 额定电压 | 100-277 VAC | | |
| | Voltage Range / 输入电压范围 | 90-305 VAC | | |
| | Frequency (Hz) / 输入频率范围 | 47-440 Hz | | |
| | Current (Full load) / 输入电流 | 115VAC | 230VAC | |
| | | 1000mA | 500mA | |
| | Inrush Current (<500us) / 冲击电流 | 60A max. | | 100A max. |
| | No Load Loss / 待机功耗 | 0.2W max. @230V | | |
| 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 | ±2% | | |
| | Line Regulation / 线性调节率 | ±0.5% | | |
| | Load Regulation / 负载调节率 | ±1% | | |
| | Minimum Load (mA) / 最小负载 | 0 | | |
| | Ripple & Noise (mV) / 输出纹波 | Refer to "Model List" | | |
| | Efficiency (typ.) / 工作效率 | >85% | | |
| | Start-up Time / 开机延迟时间 | 3S | | |
| Hold up Time / 掉电保持时间(典型值) | 30ms/230VAC at full load | | | |
| Protection 保护特性 | Over Current Protection / 过流保护 | Hiccup mode | | |
| | Short Circuit Protection / 短路保护 | Hiccup mode | | |
| Environment 环境 | Operating Temperature / 工作温度 | -40°C...+85°C @free air convection (refer to the Power Derating Curve) | | |
| | Operating Humidity / 工作湿度 | 20-90% RH non-condensing | | |
| | Storage Temperature / 存储温度 | -40°C...+85°C | | |
| | Storage Humidity / 存储湿度 | 95% RH | | |
| | Temperature Coefficient/温度漂移系数 | ±0.05%/°C (0~50°C) | | |
| Physical 外观结构 | Case Material / 外壳材质 | Plastic (UL 94V-0 rated) | | |
| | Weight / 产品净重 | 120g (ref.) | | |
| Safety & EMC 安全认证及电磁兼容 | Dielectric Strength / 绝缘强度 | I/P-O/P: 6275VAC | | |
| | Altitude / 海拔高度 | 5000m | | |
| | Overvoltage Category / 过电压类别 | EN IEC61558 | OVC IV | |
| | | EN IEC62368 | OVC II | |
| | Safety Standards / 安全标准 | EN IEC62368, EN IEC61558 | | |
| | EMI / 电磁兼容 | Compliance with EN55032 CLASS B, EN61000-3-2, EN61000-3-3 | Need to add external EMC component | |
| EMS (Noise Immunity)/ 电磁抗干扰 | | Compliance With EN55035 | | |
| Reliability Requirement 可靠性要求 | MTBF/平均故障间隔时间 | 300Khrs Min MIL-HDBK-217F (25°C) | | |
| | Burn-In Test/ 老化测试 | The unit shall be burned in for 2~4 Hours under 277Vac input and with full load at 25°C | | |

PRODUCT CHARACTERISTIC CURVE (产品特性曲线)



TYPICAL APPLICATION SCHEMATIC (典型应用电路)



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)

