

RoHS

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

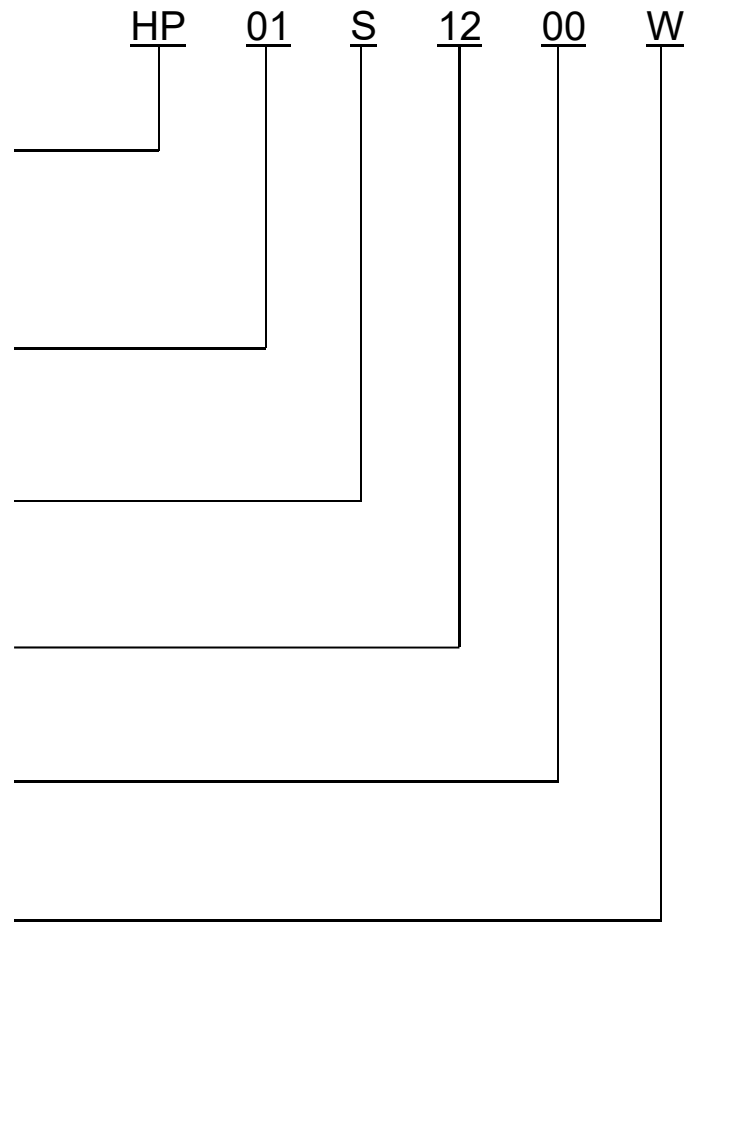
H=High Voltage Input ($\geq 165\text{VAC}$)

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: 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

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

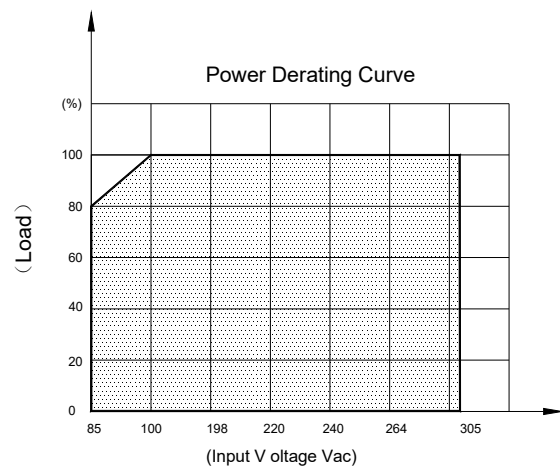
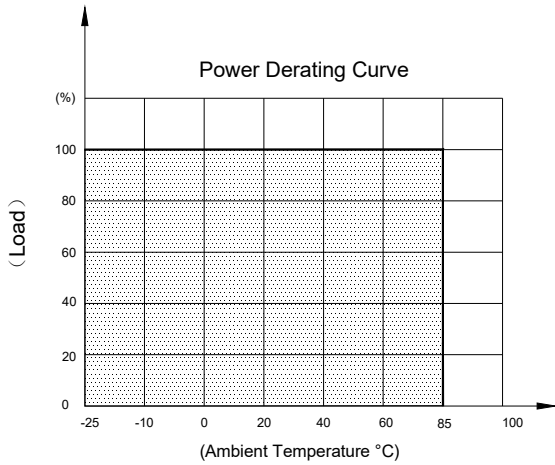
MODEL LIST

| Model No. | Output Power | DC Voltage | Rated Current | Efficiency 230VAC, % Typ. | Ripple&Noise (max) | Ambient TEMP(°C) | Weight | Certificate | | | |
|-------------|--------------|------------|---------------|---------------------------|--------------------|------------------|--------|-------------|-----|----|----|
| | | | | | | | | UL | TUV | CE | CB |
| HP01S0300WI | 1W | 3.3Vdc | 300mA | 66% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S0500WI | 1W | 5 Vdc | 200mA | 70% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S0600WI | 1W | 6 Vdc | 166mA | 70% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S0700WI | 1W | 7.5Vdc | 133mA | 72% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S0800WI | 1W | 8Vdc | 125mA | 72% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S0900WI | 1W | 9Vdc | 111mA | 72% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S1000WI | 1W | 10Vdc | 100mA | 72% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S1200WI | 1W | 12Vdc | 83mA | 74% | 150mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S1500WI | 1W | 15Vdc | 66mA | 75% | 200mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S1800WI | 1W | 18Vdc | 55mA | 77% | 200mVp-p | 85 | 20g | ● | ● | ● | ● |
| HP01S2400WI | 1W | 24Vdc | 42mA | 77% | 200mVp-p | 85 | 20g | ● | ● | ● | ● |

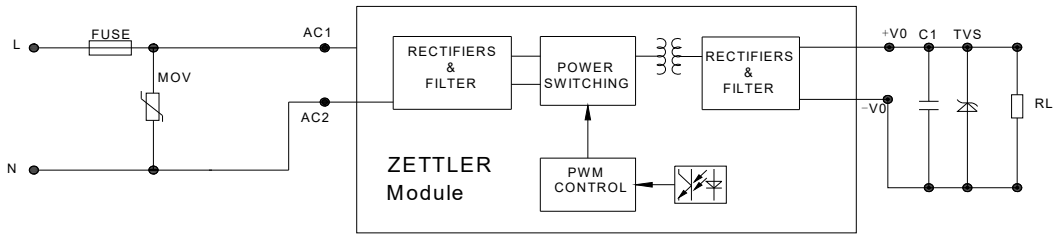
ELECTRICAL SPECIFICATION

| Model No. | | HP01SXX00WI | | |
|-------------------------|--------------------------|---|--|--------|
| Input | Rated Voltage | 100-277VAC | | |
| | Voltage Range | 85-305VAC or 100-430VDC | | |
| | Frequency (Hz) | 47-63 Hz | | |
| | Current (Full load) | 115VAC | 230VAC | 277VAC |
| | | 25mA | 18mA | 15mA |
| | Inrush Current (<500us) | 6A | 10A | |
| | No Load Loss | 0.15W Max@230VAC | | |
| HOT PLUG | Unavailable | | | |
| Output | Voltage (V) | Refer to "Model List" | | |
| | Current (mA) max. | Refer to "Model List" | | |
| | Voltage Accuracy | ±3% | | |
| | Line Regulation | ±0.5% | | |
| | Load Regulation | ±0.5% | | |
| | Minimum Load (mA) | 0 | | |
| | Ripple & Noise | Refer to "Model List" | | |
| | Efficiency (typ.) | Refer to "Model List" | | |
| | Set-up Time | ≤50ms/230VAC, ≤30ms/115VAC | | |
| | Hold up Time | >40ms/230VAC, 12ms/115VAC | | |
| Protection | Over Current Protection | ≥120%Io Self-recovery | | |
| | Short Circuit Protection | Hiccup ,continuous ,short capable, self-recovery | | |
| Environment | Operating Temperature | -25°C...+85°C @Free air convection | | |
| | Operating Humidity | 10-90% RH | | |
| | Storage Temperature | -40°C...+105°C | | |
| | Storage Humidity | 5~95% RH (No Condensing) at full load | | |
| | Temperature Coefficient | ±0.03%/°C (0~85°C) | | |
| Physical | Case Material | Plastic (UL 94V-0 rated) | | |
| | Weight | 20g (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 | | |
| | EMS (Noise Immunity) | Compliance With EN55035 | Need to add external EMC component (Refer to the Schematic) | |
| Reliability Requirement | MTBF | 1000Khrs Min MIL-HDBK-217F (25°C) | | |
| | Burn-In Test | The unit shall be burned in for 2~4 Hours under 277Vac input and with full load at 25°C | | |

PRODUCT CHARACTERISTIC CURVE



TYPICAL APPLICATION SCHEMATIC



| 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

