



RoHS



ORDERING CODE (命名规则)

Example:

ZP=Zettler standard series

AP=Customized series

HPI=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 ($\geq 165VAC$)

L=Low Voltage Input ($< 165VAC$)

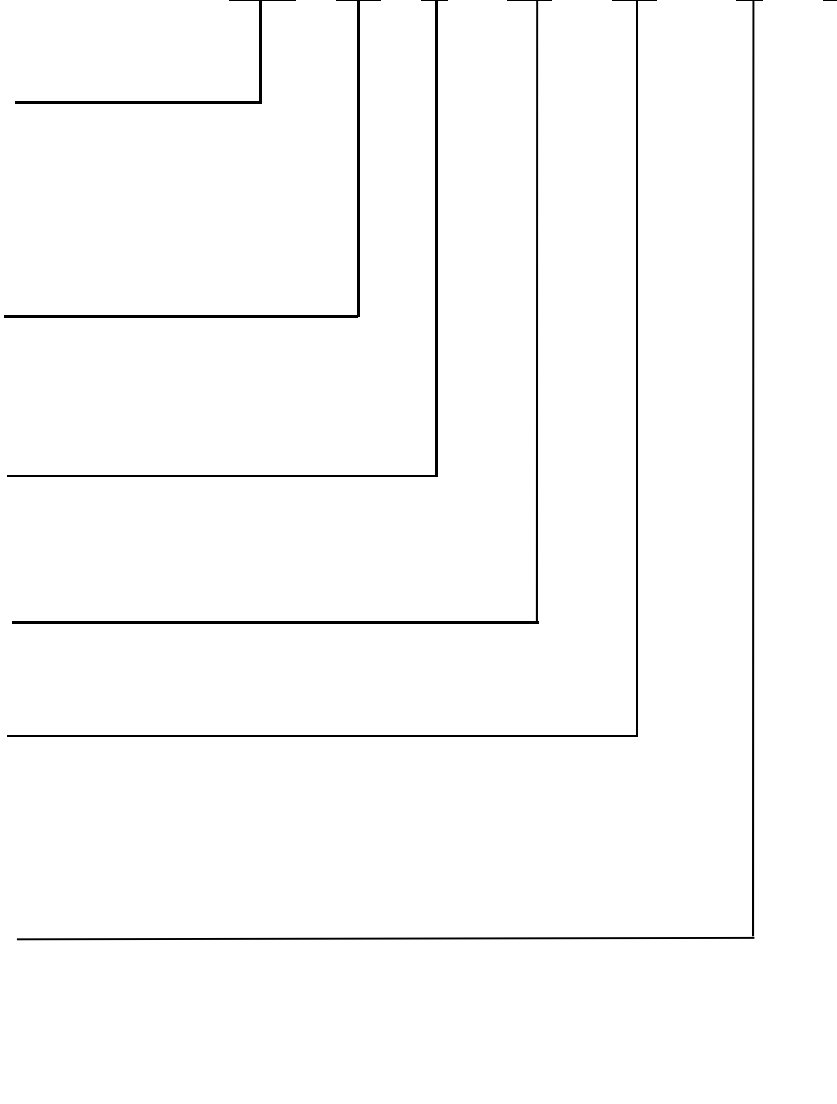
E=Extra Voltage Input

Case Dimension

A: A Type case

B: B Type case...

HPI 10 S 24 00 E D



FEATURES (产品特点)

- PCB mounted switching Power module
- AC input voltage range: 90VAC~528VAC
- DC input voltage range: 120VDC-745VDC
- Ambient temperature range: -40°C~80°C
- Storage temperature range: -40°C~85°C
- Leakage current (input :264VAC): <0.3mA
- Isolation voltage: input –Output ≥4000VAC 60S
- Insulation Resistance: Input –Output 500VDC ≥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
- Built-in EMI filter components, comply with the EN55032 class B standard
- Insulation classification: CLASS B

APPLICATIONS (应用)

This series could be widely applied in the applications of harsh industrial and outdoor mains conditions.

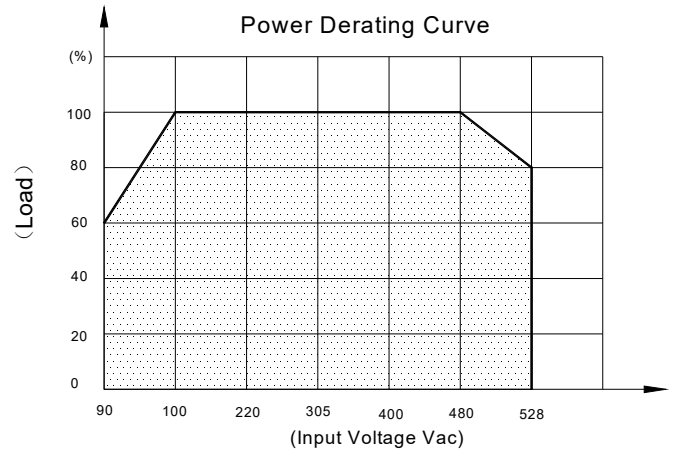
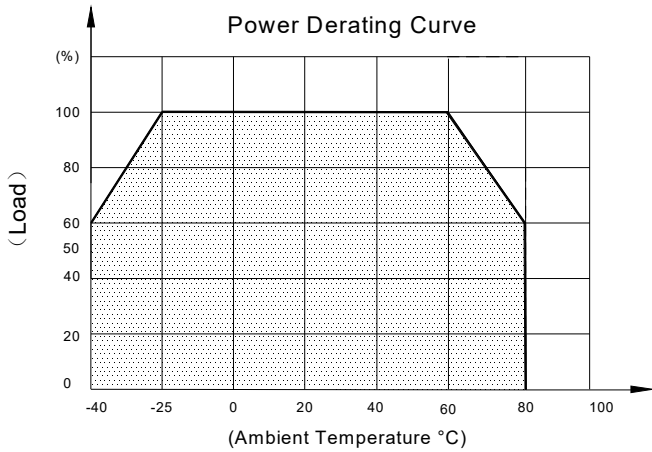
MODEL LIST (型号列表)

| Model No. | Output Power | DC Voltage | Rated Current | Efficiency 230VAC, % Typ. | Ripple&Noise (max) | Ambient TEMP(°C) | Weight | Certificate | | |
|--------------|--------------|------------|---------------|---------------------------|--------------------|------------------|--------|-------------|----|----|
| | | | | | | | | UL | CE | CB |
| HPI10S1200ED | 10W | 12V | 830mA | 80% | ≤360mV | 60 | 88g | ● | ● | ● |
| HPI10S1500ED | 10W | 15V | 660mA | 80% | ≤450mV | 60 | 88g | ● | ● | ● |
| HPI10S1800ED | 10W | 18V | 550mA | 80% | ≤540mV | 60 | 88g | ● | ● | ● |
| HPI10S2400ED | 10W | 24V | 420mA | 80% | ≤720mV | 60 | 88g | ● | ● | ● |

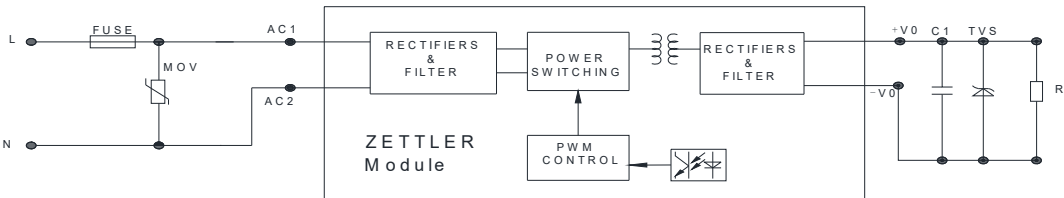
ELECTRICAL SPECIFICATION (电性能参数)

| Model No. / 型号 | | HPI10SXX00ED | | |
|-------------------------------------|---------------------------------|--|--------|--|
| Input 输入参数 | Rated Voltage / 额定电压 | 100-480VAC | | |
| | Voltage Range / 输入电压范围 | 90-528VAC or 120-745VDC | | |
| | Frequency (Hz) / 输入频率范围 | 47-63 Hz | | |
| | Current (Full load) / 输入电流 | 100VAC | 480VAC | |
| | | 220mA | 52mA | |
| | Inrush Current (<500us) / 冲击电流 | 20A | 35A | |
| | No Load Loss / 待机功耗 | 0.5W Max | | |
| 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 | ±5% | | |
| | Line Regulation / 线性调节率 | ±5% | | |
| | Load Regulation / 负载调节率 | ±5% | | |
| | 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 | Refer to "Model List" | | |
| | Start-up Time / 开机延迟时间 | 3S | | |
| Hold up Time / 掉电保持时间(典型值) | 15ms min | | | |
| 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...+80°C(see De-rating Curve) @Free air convection | | |
| | Operating Humidity / 工作湿度 | 10-90% RH | | |
| | Storage Temperature / 存储温度 | -40°C...+85°C | | |
| | Storage Humidity / 存储湿度 | 5-95% RH | | |
| | Temperature Coefficient/温度漂移系数 | ±0.04%/°C (0~60°C) | | |
| Physical 外观结构 | Case Material / 外壳材质 | Plastic (UL 94V-0) | | |
| | Weight / 产品净重 | Refer to "Model List" | | |
| Safety & EMC 安全认证及 电磁兼容 | Dielectric Strength / 绝缘强度 | I/P-O/P : 4000VAC | | |
| | Safety Standards / 安全标准 | Compliance With UL/EN62368-1 | | |
| | 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 Radiated Susceptibility: IEC 61000-4-3, 10V/m, Criteria A; Conducted Susceptibility: IEC 61000-4-6, 10V (rms), criteria A; Surge: IEC 61000-4-5, line and line: 2 kV, Criteria A; | | |
| 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 500Vac 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)



| ITEM | MOV | FUSE |
|--------|---------|------------|
| 1~2W | 14D911K | 1A/600V |
| 3~10W | 14D911K | 2A/600V |
| 10~20W | 14D911K | 3.15A/600V |

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)

