



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 ($\geq 165\text{VAC}$)

L=Low Voltage Input ($< 165\text{VAC}$)

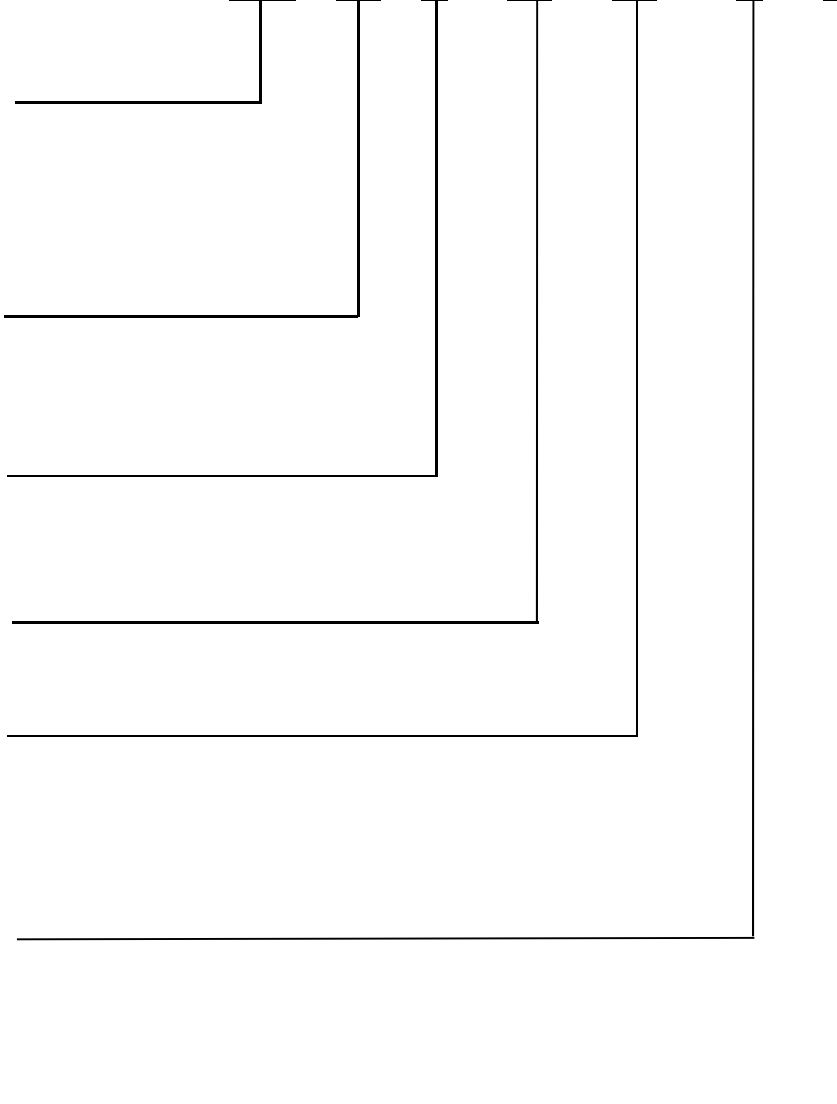
E=Extra Voltage Input

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℃~80℃
- Storage temperature range: -40℃~85℃
- 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℃)
- 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.

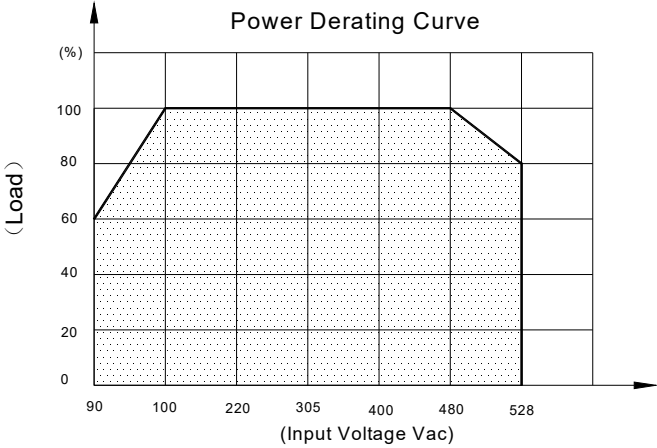
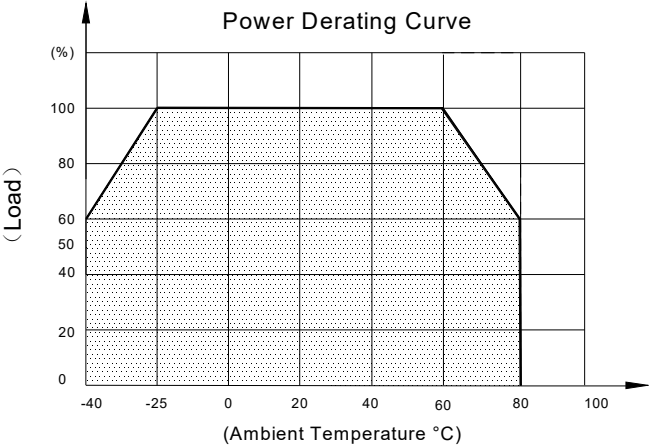
MODEL LIST (型号列表)

Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple&Noise (max)	Ambient TEMP(℃)	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	●	●	●

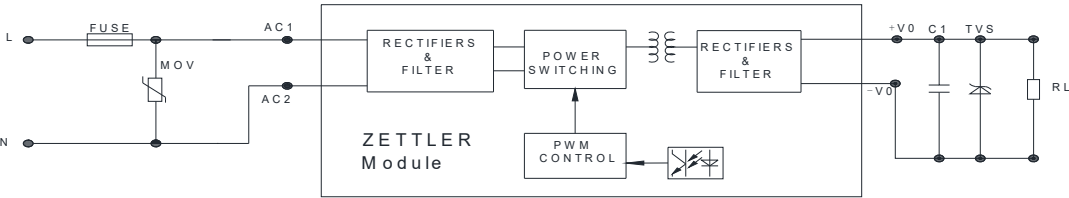
ELECTRICAL SPECIFICATION (电性能参数)

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)

