



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 ( $< 165VAC$ )

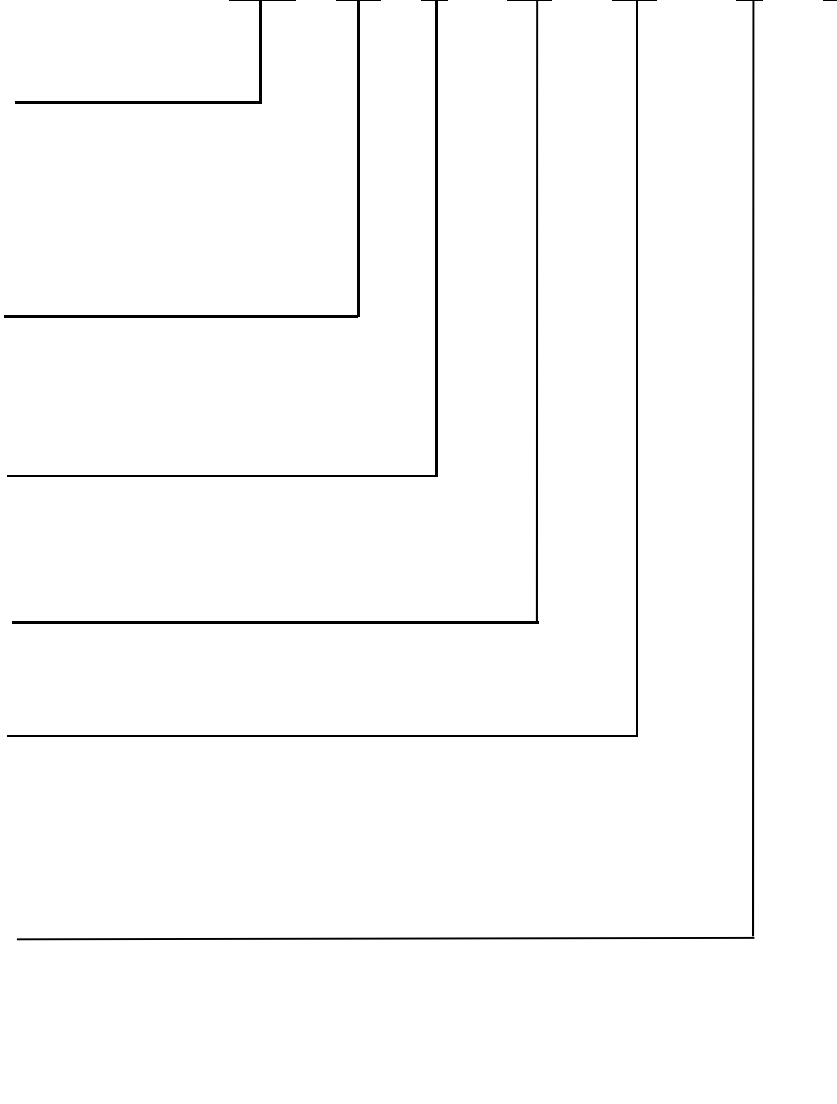
E=Extra Voltage Input

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.

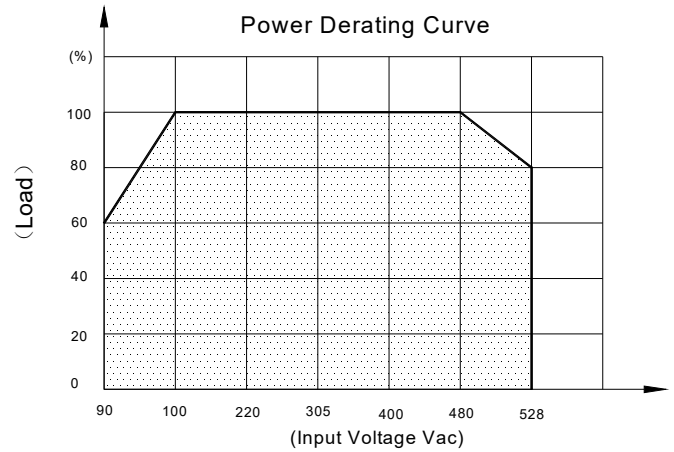
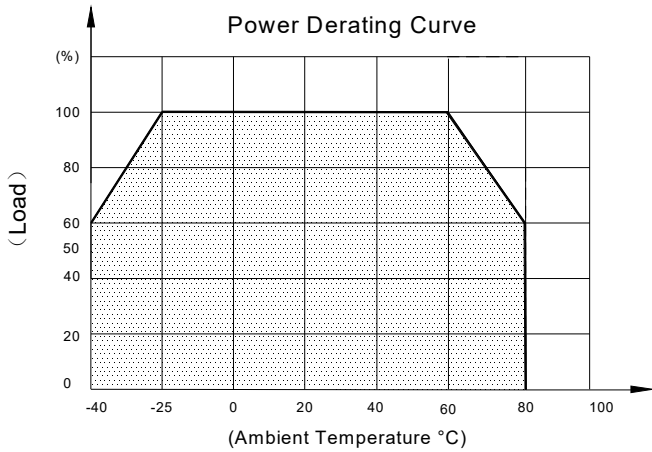
### MODEL LIST (型号列表)

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	●	●	●

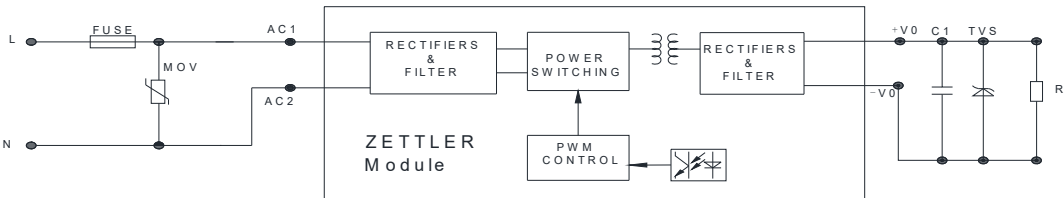
### ELECTRICAL SPECIFICATION (电性能参数)

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)

