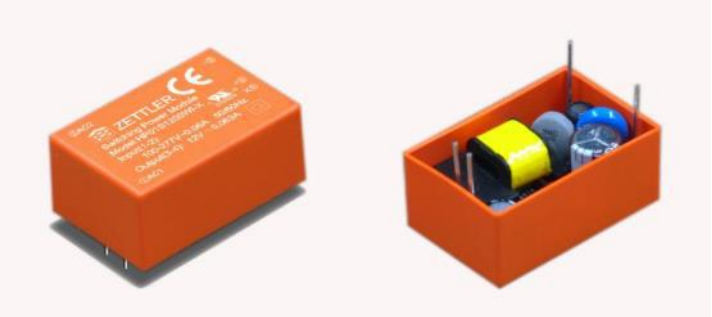


ORDERING CODE

HP 01 S 12 00 W I - X

Example:

ZP = Zettler standard series

AP = Customized series

HP = High Performance series DP = DC-DC

Total Output Power (W)

Example:

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 (≥165VAC)

L = Low Voltage Input (＜165VAC)

Additional Case Type

Example

A: A Type case

B: B Type case…

The zero signal

FEATURES

- PCB mounted switching Power module
- AC input voltage range: 85VAC~305VAC
- DC input voltage range: 100VDC~430VDC
- Ambient temperature range: -25℃~85℃
- Storage temperature range: -40℃~105℃
- Leakage current (Input :305VAC): ＜0.3mA
- Isolation voltage: Input – Output ≥3600VAC 60S
- Insulation Resistance: Input – Output 500VDC ≥100M Ohms
- MTBF(at 25℃ 70%RH environment): ＞1000000hrs
- Compact size, easy installation
- High efficiency Low standby power consumption ＜0.3W, environment-friendly
- Built-in output over current protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, complies with the EN55032 class B standard
- Insulation: class Ⅱ

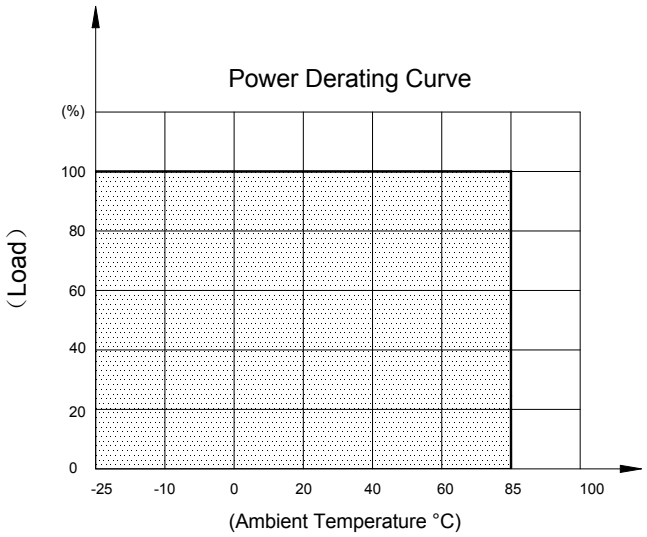
MODEL LIST

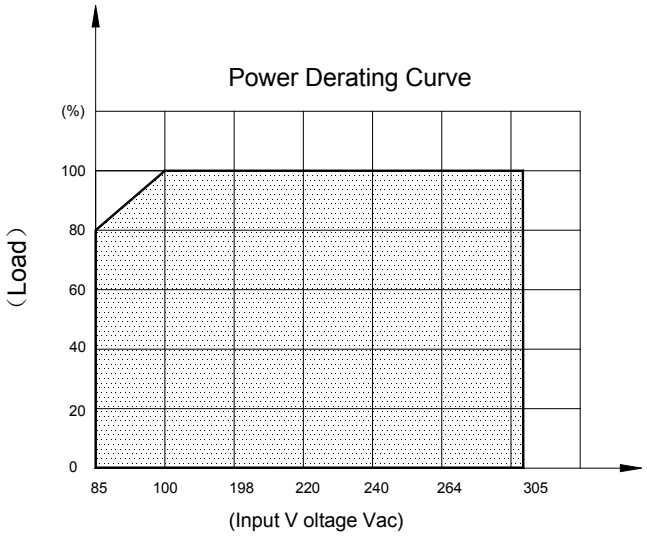
Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple& Noise (max)	Ambient TEMP(℃)	Weight	Certificate
								UL
HP01S0500WI-X	1W	5Vdc	200mA	63%	250mVp-p	85	20g	●
HP01S0600WI-X	1W	6Vdc	166mA	63%	240mVp-p	85	20g	●
HP01S0700WI-X	1W	7.5Vdc	133mA	63%	300mVp-p	85	20g	●
HP01S0800WI-X	1W	8Vdc	125mA	63%	240mVp-p	85	20g	●
HP01S0900WI-X	1W	9Vdc	111mA	63%	270mVp-p	85	20g	●
HP01S1000WI-X	1W	10Vdc	100mA	63%	300mVp-p	85	20g	●
HP01S1200WI-X	1W	12Vdc	83mA	63%	240mVp-p	85	20g	●
HP01S1500WI-X	1W	15Vdc	66mA	63%	300mVp-p	85	20g	●
HP01S1800WI-X	1W	18Vdc	55mA	63%	360mVp-p	85	20g	●

ELECTRICAL SPECIFICATION

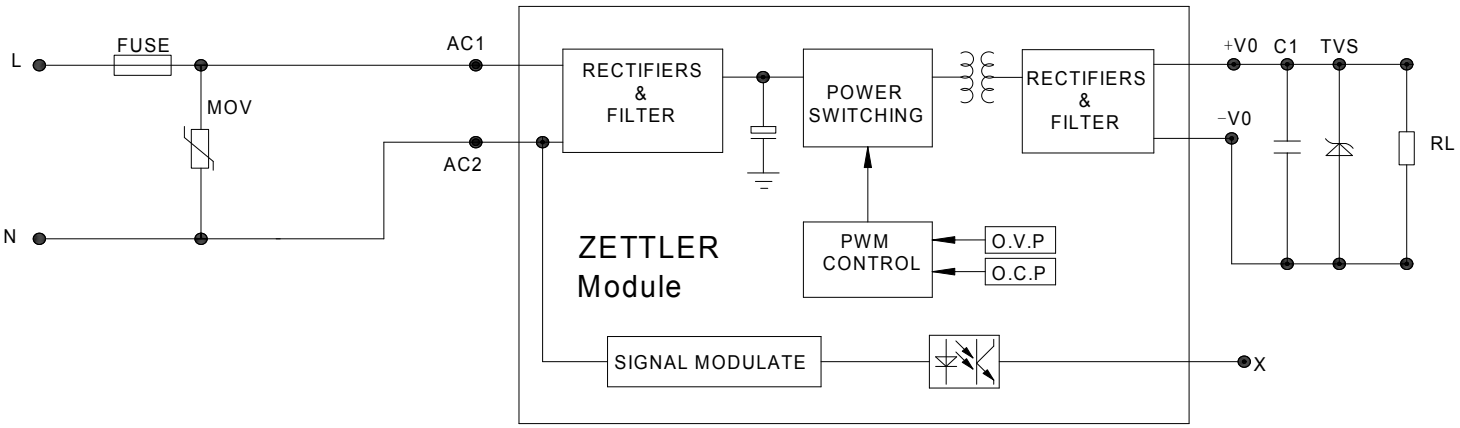
Model No.		HP01SXX00WI-X		
Input	Rate Voltage	100~277VAC		
	Input Voltage Range	85~305VAC or 100~430VDC		
	Frequency (Hz)	47-63 Hz		
	Current (Full load)	115VAC	230VAC	277VAC
		25mA	18mA	15mA
	Inrush Current (<500us)	15A	25A	
	No Load Loss	0.3W Max@230VAC		
	HOT PLUG	Unavailable		
Output	Voltage (V)	Refer to “Model List”		
	Current (mA) max.	Refer to “Model List”		
	Voltage Accuracy	0-10%：±7% / 10%-100% ：±5%		
	Line Regulation	±2%		
	Load Regulation	±3%		
	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		
	X Pin	3.3V P-P Pulse phase shift compare to input rise T1: 500us，Drop T2: 500us		
		Phase shift @ Whare	AC=0,Pulse rising edge shift (T1)	
			AC=0,Pulse droping edge shift (T2)	
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 convention		
	Operating Humidity	10-90% RH		
	Storage Temperature	-40°C…+105°C		
	Storage Humidity	5-95% RH		
	Temperature Coefficient	±0.03%/°C（0~85℃）		
Physical	Case Material	Plastic （UL 94V-0 rated）		
	Weight	20g（ref.）		
Safety & EMC	Dielectric Strength	≥3600V/50HZ 5mA 1min （OR 4200VDC/2S）（I/P-O/P）		
	Safety Standards	Compliance With EN60950-1, UL60950-1, UL 62368-1		
	EMI	Compliance With EN55032, CLASS B	Need to add external EMC component (See the Schematic)	
	EMS (Noise Immunity)	EN61000-3-2 Class A Heavy industry level（surge L-N:1KV）		
Reliability Requirement	MTBF	1000Khrs Min @230VAC . MIL-HDBK-217F（25℃）		
	Burn-In Test	The unit shall be burned in for 2~4 Hours under 264Vac input and DC with full load at 25℃		

PRODUCT CHARACTERISTIC CURVE



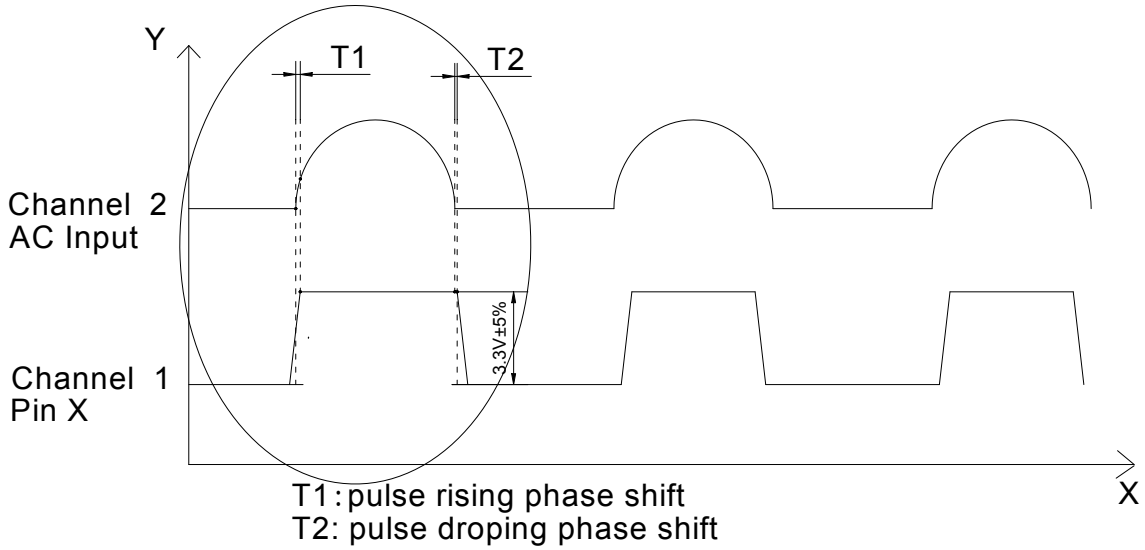


TYPICAL APPLICATION SCHEMATIC



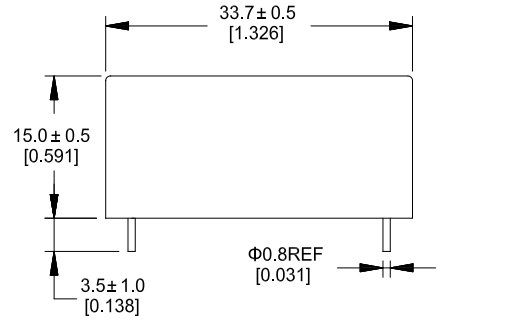
Note: External circuit components are only recommendations, customers should choose their own components and values according to their specific system application requirements.

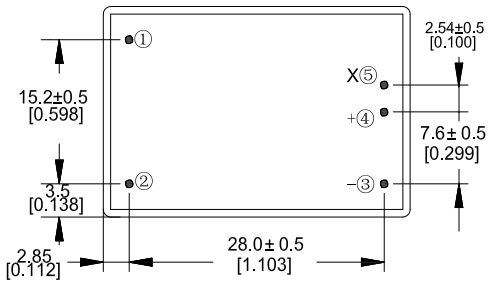
PHASE SHIFT



MECHANICAL SPECIFICATION

Outline Dimensions





No.	Pin connect	Function
1	AC1	AC Input Line
2	AC2	AC Input Neutral
3	DC-	Output Negative
4	DC+	Output Positive
5	X	Zero crossing detection Pin terminal

PCB Layout