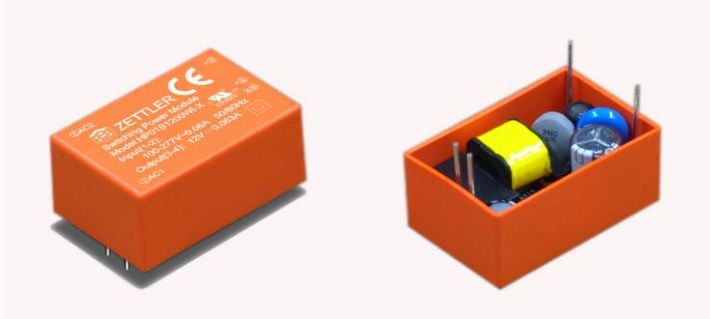


ORDERING CODE

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 overcurrent protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55022 class B standard
- Insulation: class Ⅱ

APPLICATIONS

This series could be widely applied in the LED, light control, Instrument, smart home and other home appliances.

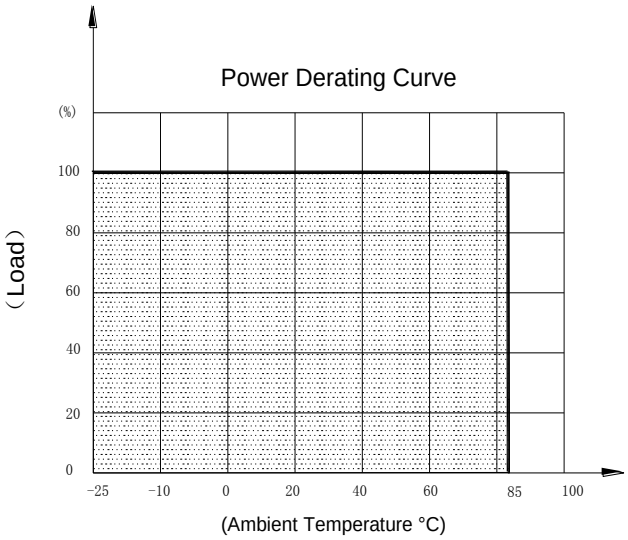
MODEL LIST

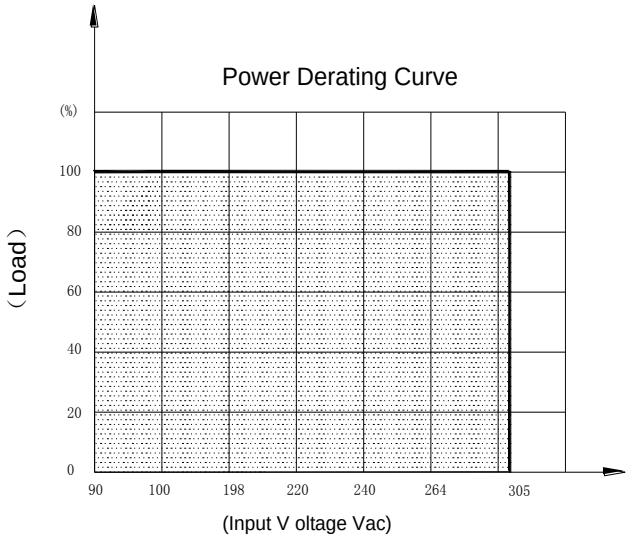
Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple& Noise (max)	Ambient TEMP(℃)	Weight	Certificate
								UL
HP01S0500WI-X	1W	5Vdc	200mA	63%	250mVp-p	85	20g	●
HP01S0600WI-X	1W	6Vdc	166mA	63%	240mVp-p	85	20g	●
HP01S0700WI-X	1W	7.5Vdc	133mA	63%	300mVp-p	85	20g	●
HP01S0800WI-X	1W	8Vdc	125mA	63%	240mVp-p	85	20g	●
HP01S900WI-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

Item			Specification		
Input	Input Voltage Range		85~305Vac or 100~430Vdc		
	AC Input Frequency Range		47~63Hz		
	Input Current		115Vac	230Vac	277Vac
			25mA	18mA	15mA
	Inrush Current		115Vac	230Vac	
			15A	25A	
	Stand-by Power Consumption		0.3W Max		
	Recommended External Input Fuse		1A/350V (slow fusing)		
	Hot Plug		(Unavailable)		
Output	Output Voltage Accuracy		±5% (Typ.)		
	Line Regulation		±0.5%		
	Load Regulation		±0.5%		
	Temperature Drift Factor		±0.03%/℃ (0-85℃)		
	Min. Load		0		
	Set-Up time		≤50ms/230Vac,≤30ms/115Vac		
	Hold-up Time		＞40ms/230Vac,12ms/115Vac		
Protection Characteristics	Over-Circuit Protection		≥120%Io Self-recovery		
	Short Circuit Protection		Hiccup ,continuous ,short capable, self-recovery		
Ambient	Ambient Temperature		- 25℃ ~ 85℃(Refer to derating curve)		
	Ambient Humidity		10~90% RH (No Condensing) at full load		
	Storage Temperature		- 40℃ ~ 105℃		
	Storage Humidity		5%~95%		
Safety &EMC requirement	Dielectric Strength		Input-Output ≥3600Vac 5mA 60S		
	Reference Safety Standards		UL/CUL60920 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16		
	EMI Built-in EMI filter	CE	Meet CISPR22/EN55022, CLASSB		
		RE	Meet CISPR22/EN55022, CLASS B		
Reliability Requirement	MTBF(MIL-HDBK-217F)		1000Khrs Min @230VAC input 25℃		
	Burn-In Test		The unit shall be burned in for 2~5 hours under 264Vac input and DC with full load at normal temperature		

PRODUCT CHARACTERISTIC CURVE

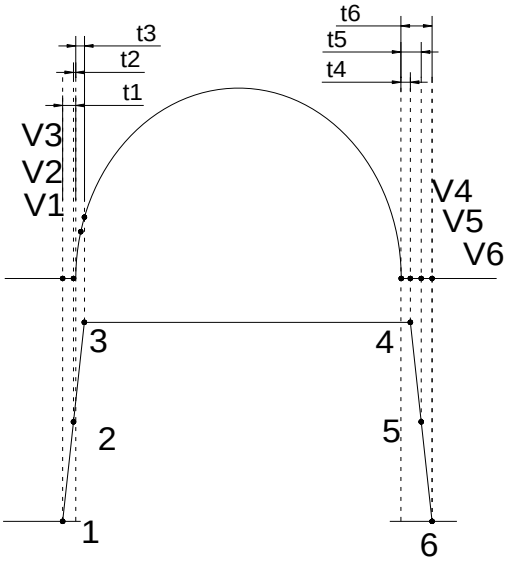


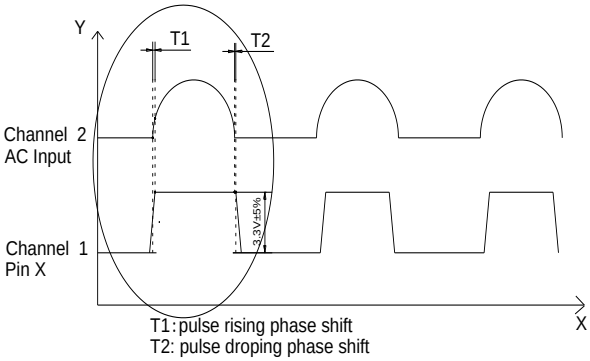


PHASE SHIFT

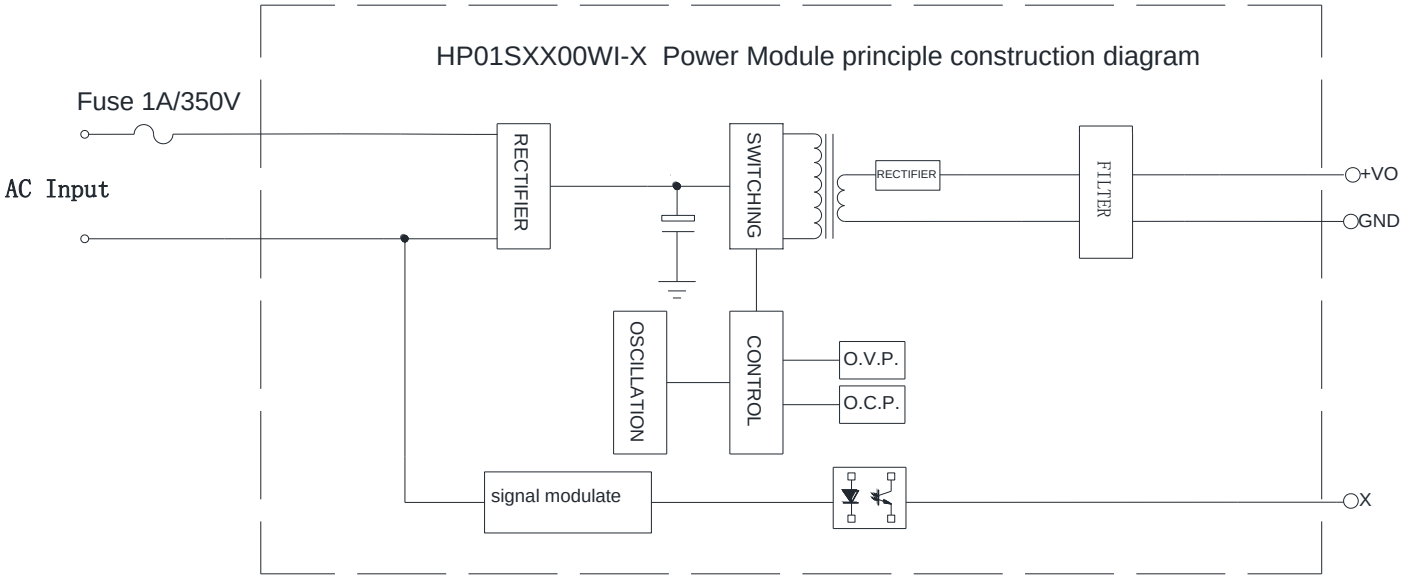
AC Input	RISE SHIFT(typ.)	DROP Shift(typ.)
90Vac	32us	244us
110Vac	60us	226us
220Vac	176us	128us
264Vac	184us	118us
277Vac	196us	114us
300Vac	216us	104us

NO.	Vac Value(typ.)	Phase Shift(typ.)
1	V1:0V	t1:-54us
2	V2:0V	t2:-18us
3	V3:16.6V	t3:160us
4	V4:0V	t4:126us
5	V5:0V	t5:131us
6	V6:0V	t6:233us



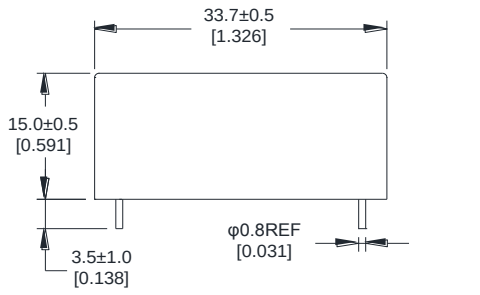


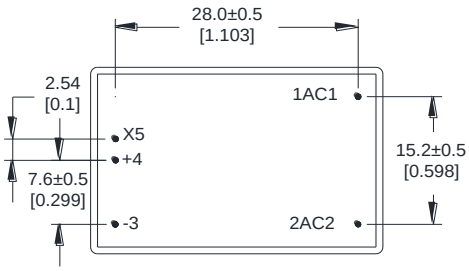
TYPICAL APPLICATION SCHEMATIC



MECHANICAL SPECIFICATION

Outline Dimensions





NO.	Pin connect	Function
1	AC1	AC Input
2	AC2	AC Input
3	DC-	Output Negative
4	DC+	Output Positive
5	X	Zero crossing detection Pin Terminal

PC Board Layout

