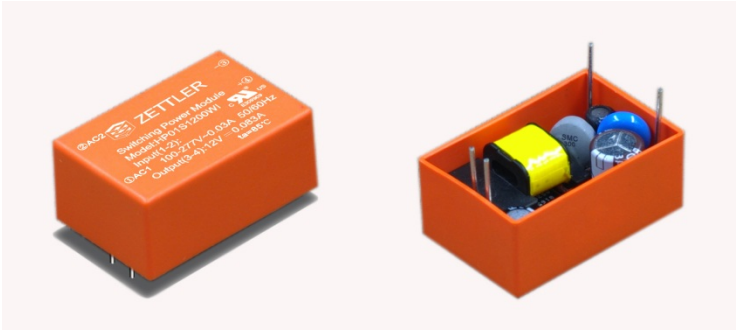
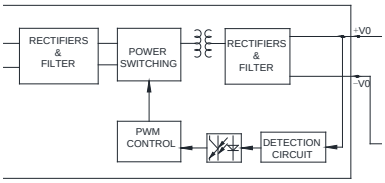




sidered a component which will be installed into a final equipment. The final equipmen

external components:
tic capacitor, High frequency low resistance capacitance is recommended; withstand v
capacitor, to remove high frequency noise.
ect the rear circuit.
t safety requirement. Type: 1A/350V Slow-Blow

ORDERING CODE

HP 01 S 12 00 W I

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…

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):＜0.25mA
- Isolation voltage: input –Output≥3000Vac 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＜0.15W, 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.

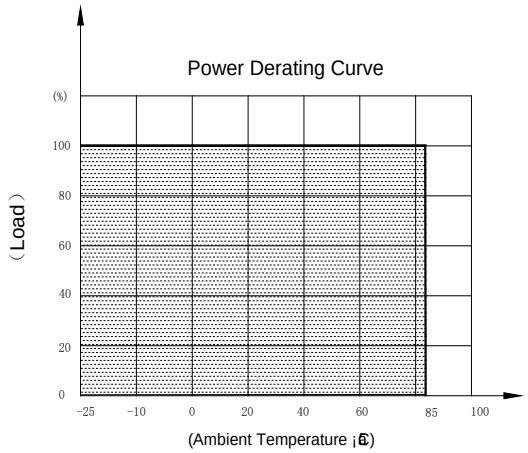
MODEL LIST

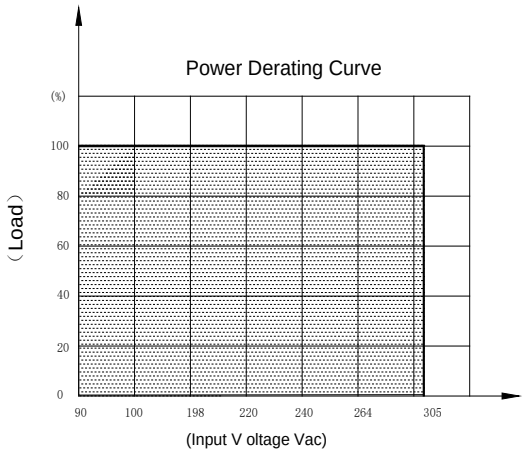
Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple&Noise (max)	Ambient TEMP(℃)	Weight	Certificate
								UL
HP01S0300WI	1W	3.3Vdc	300mA	66%	150mVp-p	85	20g	●
HP01S0500WI	1W	5 Vdc	200mA	70%	150mVp-p	85	20g	●
HP01S0600WI	1W	6 Vdc	166mA	70%	150mVp-p	85	20g	●
HP01S0700WI	1W	7.5Vdc	133mA	72%	150mVp-p	85	20g	●
HP01S0800WI	1W	8Vdc	125mA	72%	150mVp-p	85	20g	●
HP01S900WI	1W	9Vdc	111mA	72%	150mVp-p	85	20g	●
HP01S1000WI	1W	10Vdc	100mA	72%	150mVp-p	85	20g	●
HP01S1200WI	1W	12Vdc	83mA	74%	150mVp-p	85	20g	●
HP01S1500WI	1W	15Vdc	66mA	75%	200mVp-p	85	20g	●
HP01S1800WI	1W	18Vdc	55mA	77%	200mVp-p	85	20g	●
HP01S2400WI	1W	24Vdc	42mA	77%	200mVp-p	85	20g	●

ELECTRICAL SPECIFICATION

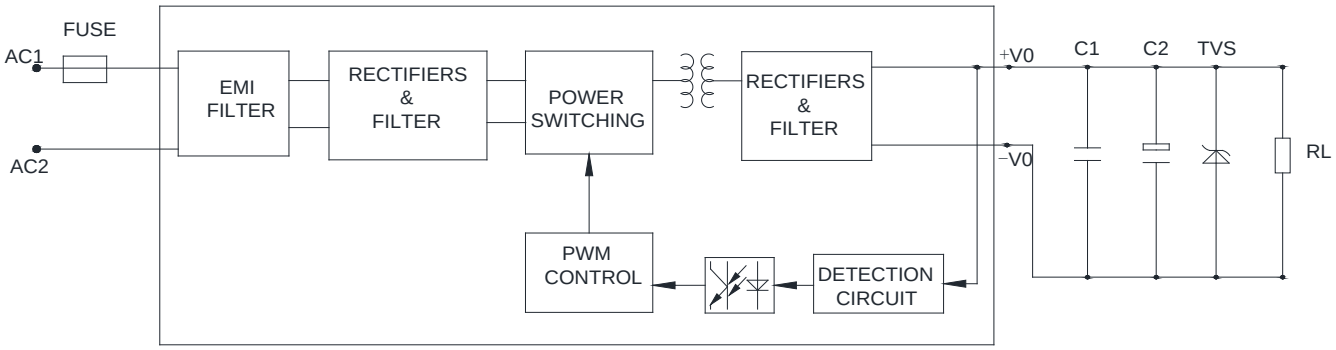
Item			Specification		
Input	Input Voltage Range		85~305Vac or 100~430Vdc		
	AC Input Frequency Range		47~63Hz		
	Input Current		115Vac	230Vac	277Vac
			25mA	18mA	15mA
	Inrush Current		115Vac	230Vac	
			6A	10A	
	Stand-by Power Consumption		0.15W Max		
	Recommended External Input Fuse		1A/350V (slow fusing)		
	Hot Plug		(Unavailable)		
Output	Output Voltage Accuracy		±3% (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 ≥3000Vac 5mA 60S		
	Reference Safety Standards		UL/CUL60920 IEC/EN60950 IEC/EN60335 IEC/EN61558-2-16		
	EMI Built-in EMI filter	CE	Meet CISPR22/EN55022, CLASS B		
		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





TYPICAL APPLICATION SCHEMATIC



Note; The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meet EMC directives.

Optional recommendations on external components:

C1 from output filter is electrolytic capacitor, High frequency low resistance capacitance is recommended; withstand voltage derating over 80%.

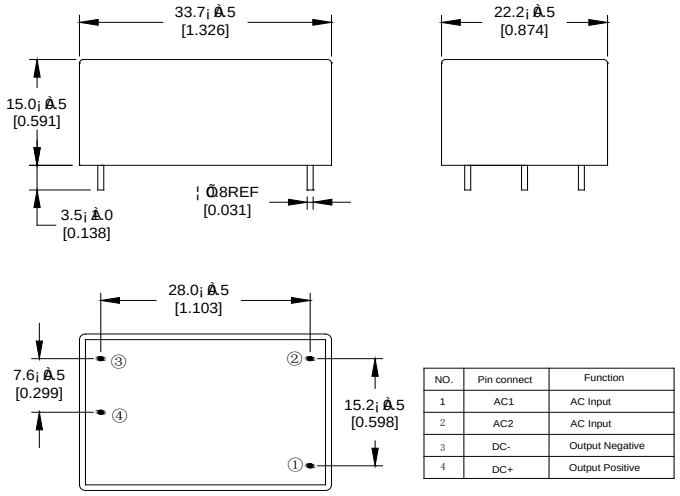
C2 from output filter is ceramic capacitor, to remove high frequency noise.

TVS from output filter is to protect the rear circuit.

Fuse from input filter is to meet safety requirement. Type: 1A/350V Slow-Blow

MECHANICAL SPECIFICATION

Outline Dimensions



NO.	Pin connect	Function
1	AC1	AC Input
2	AC2	AC Input
3	DC-	Output Negative
4	DC+	Output Positive

PC Board Layout