ORDERING CODE

HP 02 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 over current protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55032 class B standard
- Insulation: class Ⅱ

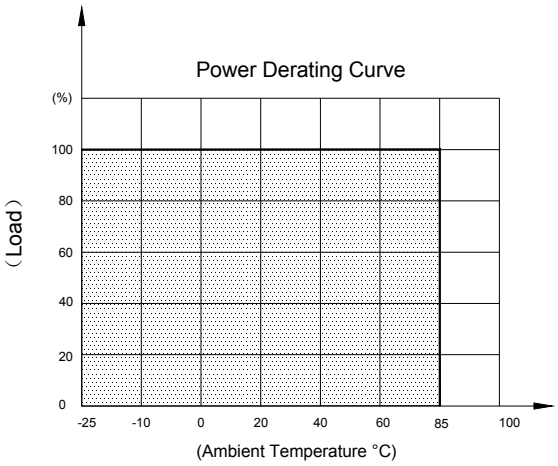
MODEL LIST

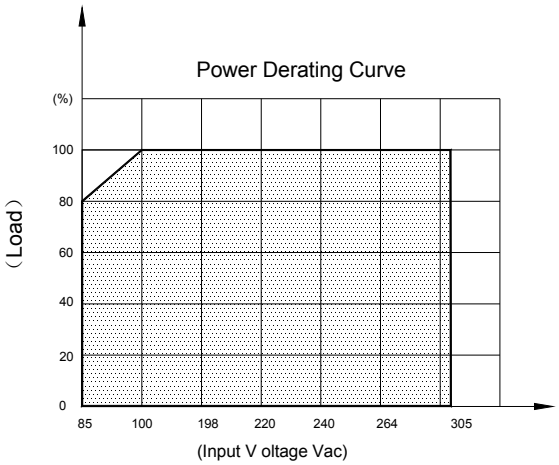
Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple&Noise (max)	Ambient TEMP(℃)	Weight	Certificate
								UL
HP02S0300WI	2W	3.3Vdc	600mA	66%	150mVp-p	85	20g	●
HP02S0500WI	2W	5 Vdc	400mA	70%	150mVp-p	85	20g	●
HP02S0600WI	2W	6 Vdc	333mA	70%	150mVp-p	85	20g	●
HP02S0700WI	2W	7.5Vdc	266mA	72%	150mVp-p	85	20g	●
HP02S0800WI	2W	8Vdc	250mA	72%	150mVp-p	85	20g	●
HP02S900WI	2W	9Vdc	222mA	72%	150mVp-p	85	20g	●
HP02S1000WI	2W	10Vdc	200mA	72%	150mVp-p	85	20g	●
HP02S1200WI	2W	12Vdc	167mA	74%	150mVp-p	85	20g	●
HP02S1500WI	2W	15Vdc	133mA	75%	200mVp-p	85	20g	●
HP02S1800WI	2W	18Vdc	111mA	75%	200mVp-p	85	20g	●
HP02S2400WI	2W	24Vdc	83mA	77%	200mVp-p	85	20g	●

ELECTRICAL SPECIFICATION

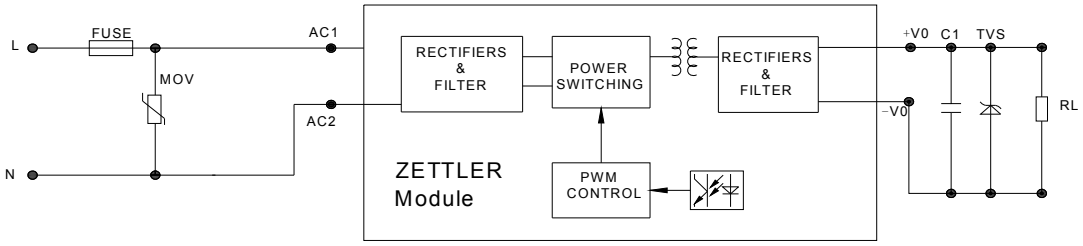
Model No.		HP02SXX00WI	
Input	Rate Voltage	100~277VAC	
	Input Voltage Range	85~305VAC or 100~430VDC	
	Frequency (Hz)	47-63 Hz	
	Current (Full load)	115VAC	230VAC
		45mA	30mA
	Inrush Current (<500us)	6A	10A
	No Load Loss	0.15W Max@230VAC	
	HOT PLUG	Unavailable	
Output	Voltage (V)	Refer to “Model List”	
	Current (mA) max.	Refer to “Model List”	
	Voltage Accuracy	±3%	
	Line Regulation	±0.5%	
	Load Regulation	±0.5%	
	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	
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 convection	
	Operating Humidity	10-90% RH	
	Storage Temperature	-40°C…+105°C	
	Storage Humidity	5~95% RH (Non - Condensing) at full load	
	Temperature Coefficient	±0.03%/°C（0~85℃）	
Physical	Case Material	Plastic （UL 94V-0 rated）	
	Weight	20g（ref.）	
Safety & EMC	Dielectric Strength	Input-Output ≥3000Vac 5mA 60S	
	Safety Standards	Compliance With UL 62368-1, EN61558-2-16	
	EMI	Compliance With EN55032, EN61000-3-2:2019, EN61000-3-3:2013+A1:2019	
	EMS (Noise Immunity)	Complaince with EV55035	Need to add external EMC component (See the Schematic)
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

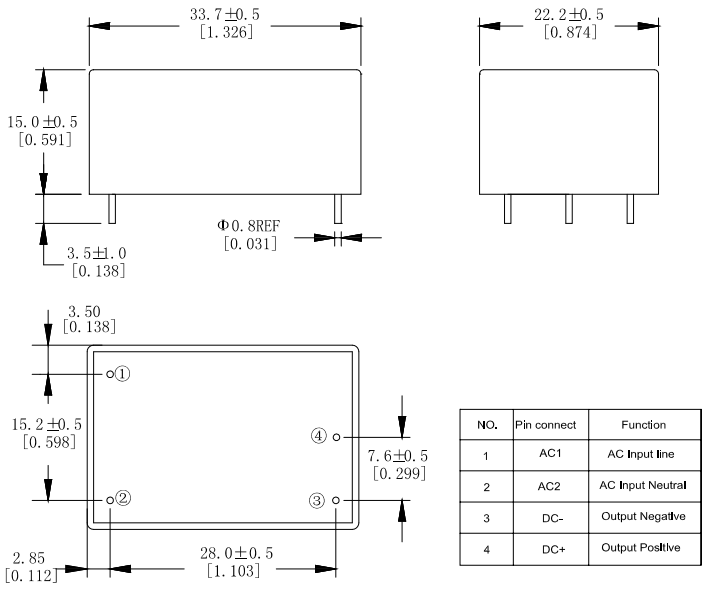


ITEM	MOV	FUSE
1~2W	14D561K	1A/250V
3-10W	14D561K	2A/250V
10~20W	14D561K	3.15A/250V

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

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

PCB Layout