

ORDERING CODE

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

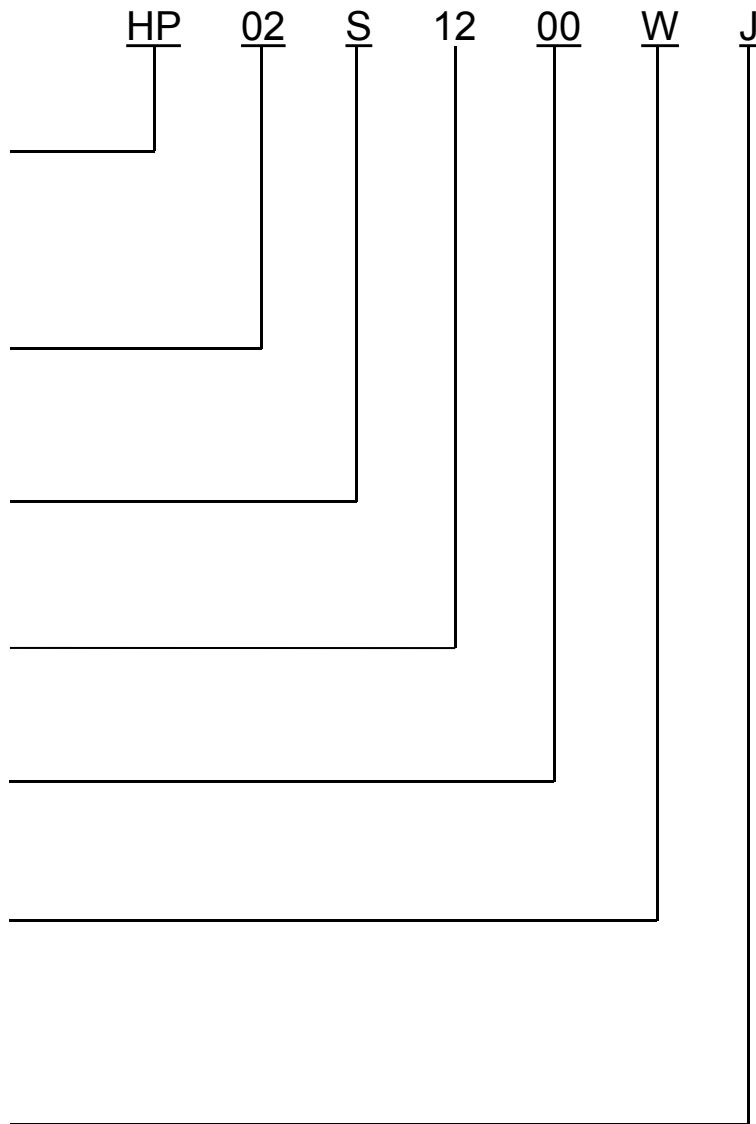
Input AC Voltage Range

- W = Wide Voltage Input
- H = High Voltage Input ($\geq 165VAC$)
- 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°C~85°C
- Storage temperature range: -40°C~105°C
- Leakage current (Input : 305VAC): <0.25mA
- Isolation voltage: Input – Output ≥3000VAC 60S
- Insulation Resistance: Input – Output 500VDC ≥100M Ohms
- MTBF(at 25°C 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

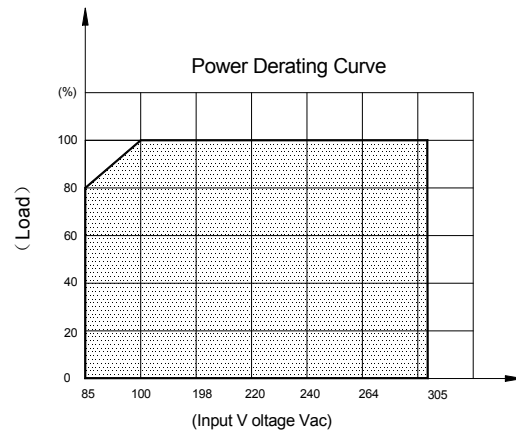
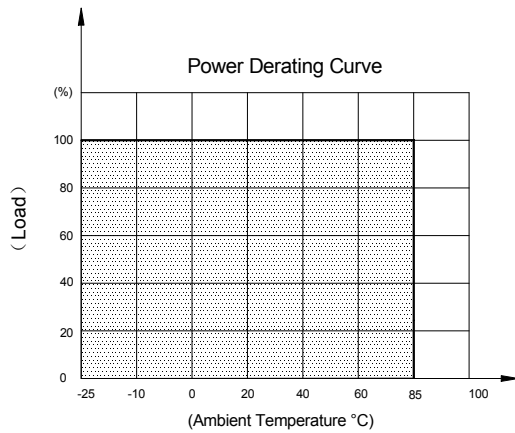
MODEL LIST

Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC, % Typ.	Ripple&Noise (max)	Ambient TEMP(°C)	Weight	Certificate	
								UL	TUV
HP02S0300WJ	2W	3.3Vdc	600mA	66%	100mVp-p	85	23.1g		
HP02S0500WJ	2W	5 Vdc	400mA	70%	100mVp-p	85	23.1g	●	●
HP02S0600WJ	2W	6 Vdc	333mA	70%	100mVp-p	85	23.1g	●	●
HP02S0700WJ	2W	7.5Vdc	277mA	72%	100mVp-p	85	23.1g	●	●
HP02S0800WJ	2W	8Vdc	250mA	72%	100mVp-p	85	23.1g	●	●
HP02S900WJ	2W	9Vdc	222mA	72%	100mVp-p	85	23.1g	●	●
HP02S1000WJ	2W	10Vdc	200mA	72%	150mVp-p	85	23.1g	●	●
HP02S1200WJ	2W	12Vdc	167mA	74%	150mVp-p	85	23.1g	●	●
HP02S1500WJ	2W	15Vdc	133mA	75%	200mVp-p	85	23.1g	●	●
HP02S1800WJ	2W	18Vdc	111mA	75%	200mVp-p	85	23.1g	●	●
HP02S2400WJ	2W	24Vdc	83mA	77%	200mVp-p	85	23.1g	●	●

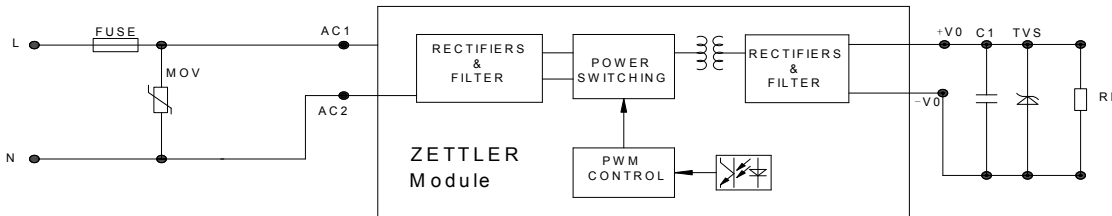
ELECTRICAL SPECIFICATION

Model No.		HP02SXX00WJ		
Input	Rate Voltage	100~277VAC		
	Input Voltage Range	85~305VAC or 100~430VDC		
	Frequency (Hz)	47-63 Hz		
	Current (Full load)	115VAC	230VAC	277VAC
		70mA	40mA	35mA
	Inrush Current (<500us)	10A	20A	
	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	(3.3V/5V±5%) ±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		
	Temperature Coefficient	±0.03%/°C (0~85°C)		
Physical	Case Material	Plastic (UL 94V-0 rated)		
	Weight	23.1g (ref.)		
Safety & EMC	Dielectric Strength	≥3000V/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		
	EMS (Noise Immunity)	EN61000-3-2 Class A Heavy industry level (surge L-N:1KV)	Need to add external EMC component (See the Schematic)	
Reliability Requirement	MTBF	1000Khrs Min @230VAC . MIL-HDBK-217F (25°C)		
	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



ITEM	MOV	FUSE
1~2W	14D561K	1A/300V
3~10W	14D561K	2A/300V
10~20W	14D561K	3.15A/300V

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

MECHANICAL SPECIFICATION

