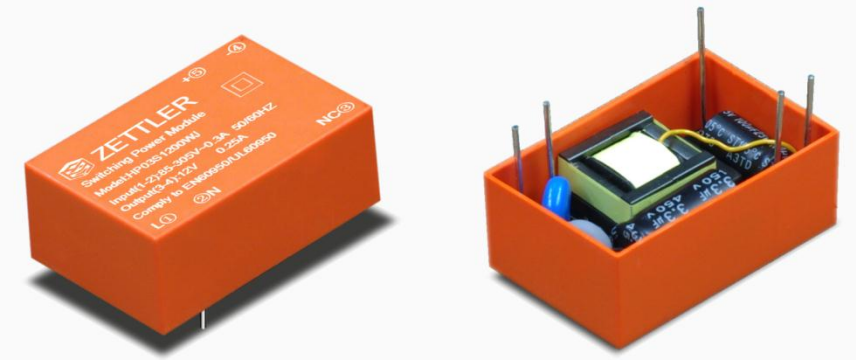


TUV/UL Pending

ORDERING CODE

HP 03 S 12 00 W J

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.

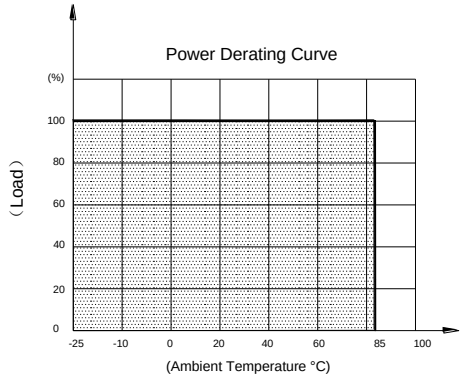
MODEL LIST

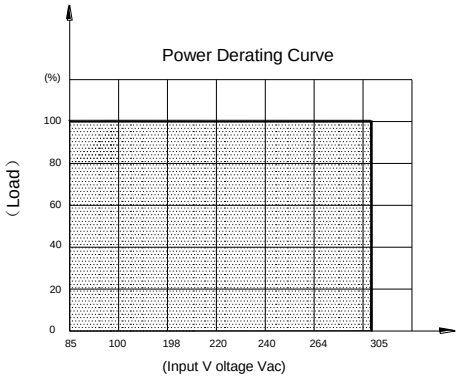
Part No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple&Noise (max)	Ambient TEMP(℃)	Weight
HP03S0500WJ	3W	5 Vdc	600mA	72%	100mVp-p	85	23.8g
HP03S0600WJ	3W	6 Vdc	500mA	72%	100mVp-p	85	23.8g
HP03S0700WJ	3W	7.5Vdc	400mA	74%	100mVp-p	85	23.8g
HP03S0800WJ	3W	8Vdc	375mA	74%	100mVp-p	85	23.8g
HP03S900WJ	3W	9Vdc	333mA	74%	100mVp-p	85	23.8g
HP03S1000WJ	3W	10Vdc	300mA	76%	150mVp-p	85	23.8g
HP03S1200WJ	3W	12Vdc	250mA	76%	150mVp-p	85	23.8g
HP03S1500WJ	3W	15Vdc	200mA	77%	200mVp-p	85	23.8g
HP03S1800WJ	3W	18Vdc	166mA	78%	250mVp-p	85	23.8g
HP03S2400WJ	3W	24Vdc	125mA	78%	250mVp-p	85	23.8g

ELECTRICAL SPECIFICATION

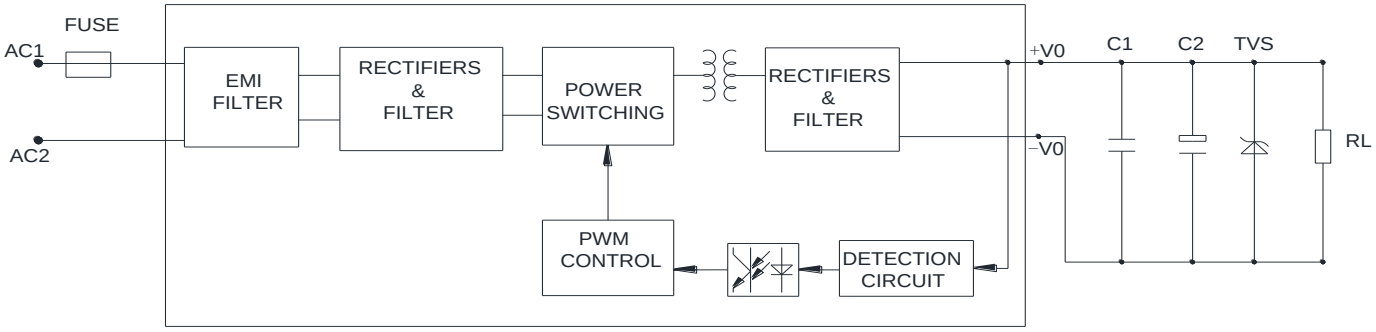
Item			Specification		
Input	Input Voltage Range		85~305Vac or 100~430Vdc		
	AC Input Frequency Range		47~63Hz		
	Input Current		115Vac	230Vac	277Vac
			70mA	40mA	35mA
	Inrush Current		115Vac	230Vac	
			10A	20A	
	Stand-by Power Consumption		0.15W Max		
	Recommended External Input Fuse		1A/350V (slow 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

