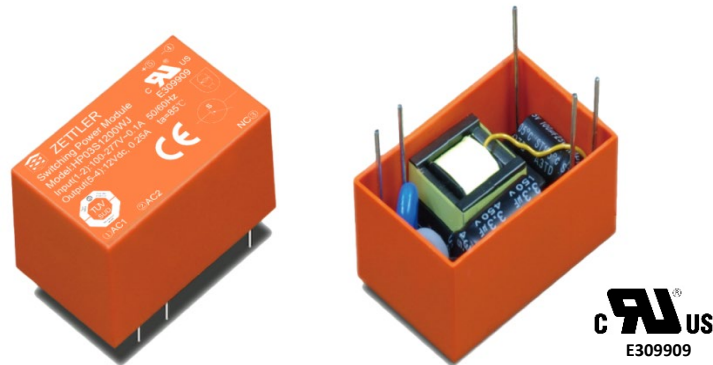




### ORDERING CODE

Example:

ZP=Zettler standard series

AP=Customized series

HP=High Performance series

DP=DC-DC

Output Power (W)

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

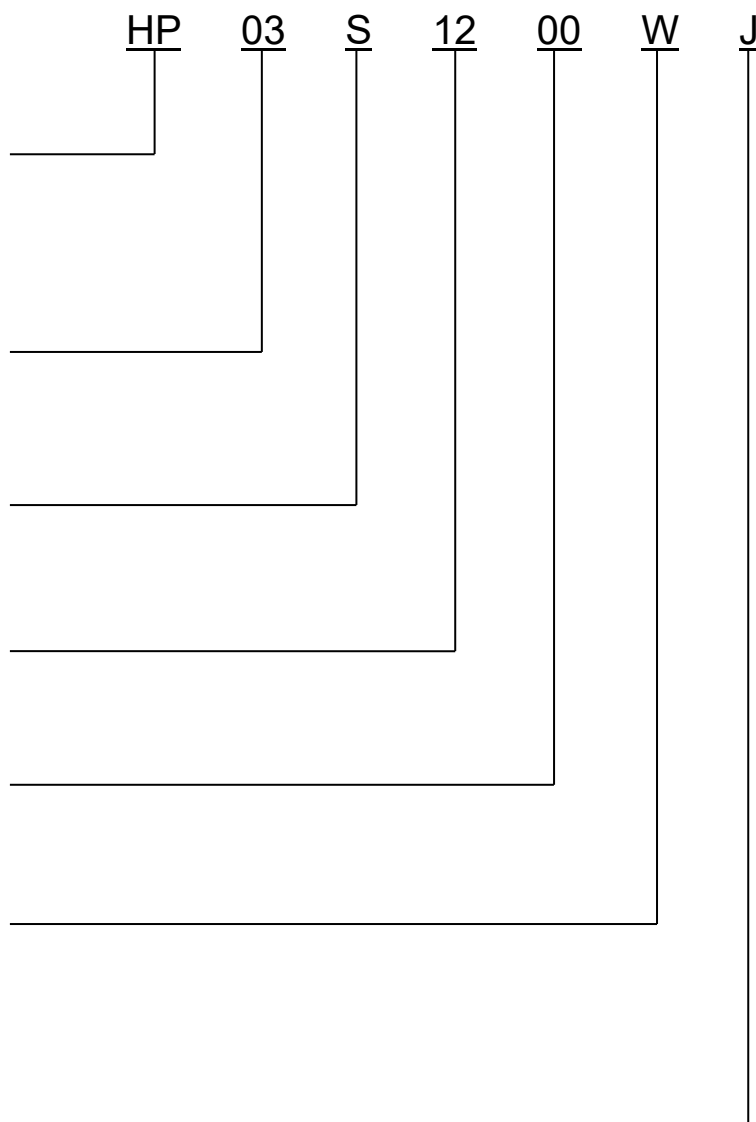
H=High Voltage Input (  $\geq 165\text{VAC}$  )

L=Low Voltage Input (  $< 165\text{VAC}$  )

Case Dimension

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 ≥3600VAC 60S
- Insulation Resistance: Input –Output 500VDC ≥100M Ohms
- MTBF: 1000Khrs Min MIL-HDBK-217F (25℃)
- 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
- Class II Construction

### APPLICATIONS

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

NOTE: Contact Zettler for information on halogen free options

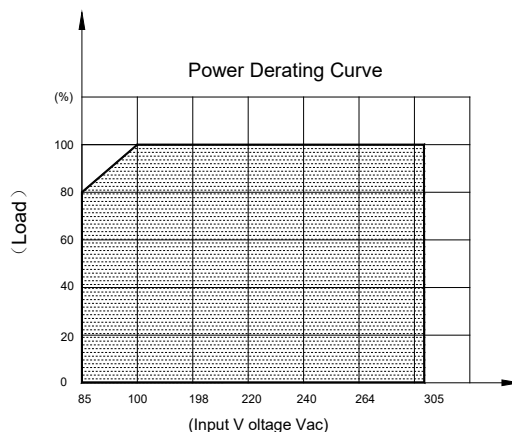
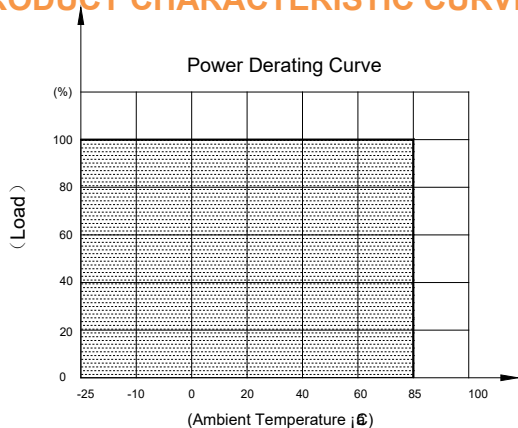
### MODEL LIST

| Model No.   | Output Power | DC Voltage | Rated Current | Efficiency 230VAC, % Typ. | Ripple&Noise (max) | Ambient TEMP(℃) | Weight | Certificate |     |    |    |
|-------------|--------------|------------|---------------|---------------------------|--------------------|-----------------|--------|-------------|-----|----|----|
|             |              |            |               |                           |                    |                 |        | UL          | TUV | CE | CB |
| HP03S0500WJ | 3W           | 5Vdc       | 600mA         | 72%                       | 100mVp-p           | 85              | 23.8g  | ●           | ●   | ●  | ●  |
| HP03S0600WJ | 3W           | 6Vdc       | 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  | ●           | ●   | ●  | ●  |
| HP03S0900WJ | 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  | ●           | ●   | ●  | ●  |

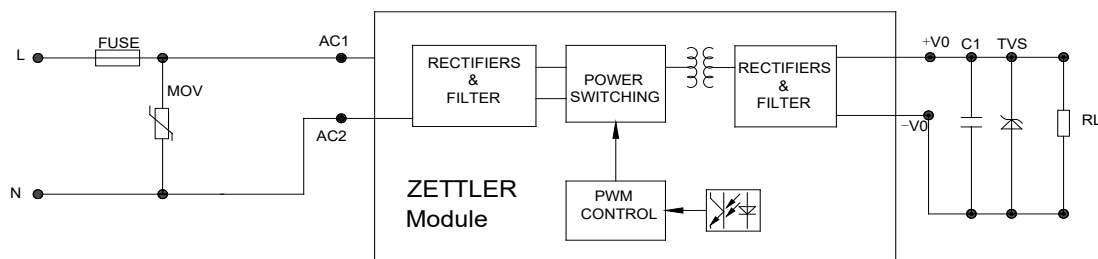
### ELECTRICAL SPECIFICATION

| Model No.               |                          | HP03SXX00WJ                                                                                                |                                                                |        |
|-------------------------|--------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------|
| Input                   | Rated Voltage            | 100~277VAC                                                                                                 |                                                                |        |
|                         | 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         | ( 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                   | 23.8g (ref.)                                                                                               |                                                                |        |
| Safety & EMC            | Dielectric Strength      | I/P-O/P : 3600VAC                                                                                          |                                                                |        |
|                         | Safety Standards         | Compliance With UL/EN62368-1 ,EN61558-2-16                                                                 |                                                                |        |
|                         | EMI                      | Compliance With EN55032, CLASS B EN61000-3-2, EN61000-3-3                                                  |                                                                |        |
|                         | EMS (Noise Immunity)     | Compliance With EN55035                                                                                    | Need to add external EMC component<br>(Refer to the Schematic) |        |
| Reliability Requirement | MTBF                     | 1000Khrs Min MIL-HDBK-217F ( 25°C )                                                                        |                                                                |        |
|                         | Burn-In Test             | The unit shall be burned in for 2~4 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

