<u>3W Ultra-compact Power Module HLK-PM01 230V AC to 5V/3W DC</u>

220V AC to 5V DC, 600mA PCB Mounted Step-Down Power Supply Module

Features

- Meet UL, CE requirements,
- Ultra-thin, ultra-small
- All voltage input (AC: 90 ~ 264V)
- Low ripple and low noise
- Output overload and short circuit protection
- High efficiency, high power density
- The product is designed to meet the requirements of EMC and Safety Test
- Low power consumption, environmental protection, no-load loss <0.1W

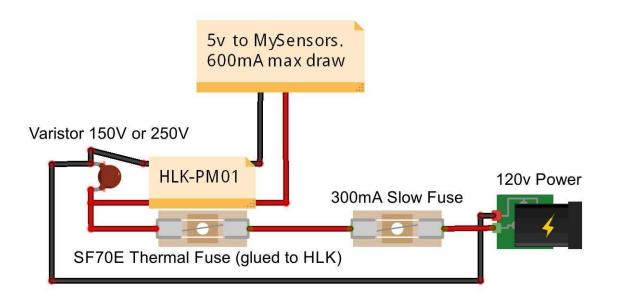
Electrical Characteristics

- Rated input voltage: 100-240 VAC
- Input voltage range: 90-264 VAC
- Maximum input voltage: ≤270 VAC
- Maximum input current: $\leq 0.2 \text{ A}$
- Input current surge: $\leq 10 \text{ A}$
- Enter slow start: $\leq 50 \text{ ms}$
- Input Low Voltage Efficiency: Vin=110VAC, Output full-load 269%
- Input High Voltage Efficiency: Vin=220VAC, output full-load >70%
- Long-term reliability: MTBF > 100, 000 h
- Load rated output voltage: +5 VDC ±0.1
- Full rated output voltage: +5 VDC ±0.2
- Short-term maximum output current: ≥1000 mA
- The maximum output current for a long time: ≥600 mA
- Voltage Regulation: ±0.2%
- Load Regulation: ±0.5%
- Output ripple and noise (mVp-p): $\leq 50 mV$
 - Rated input voltage, full load. Using 20MHz of bandwidth,
 - The load side **10uF and 0.1uF** capacitor to be tested.

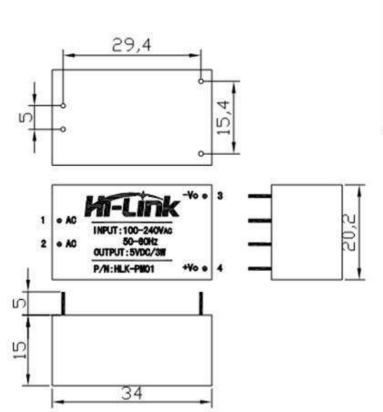
- Switch overshoot amplitude: $\leq 5 \%$ VO (Rated input voltage and output load plus 10%)
- Output over-current protection: 150-200% of the output maximum load (A)
- Output short circuit protection: Direct short circuit at the normal output, automatically resume normal operation after a short circuit removal

Safety Characteristics:

- Designed with the input of 0.5A UL certified insurance;
- PCB board using double-sided copper clad plate production, material for the 94-V0 fire rating level;
- Safety standards: Compliance with UL1012, EN60950, UL60950
- Insulation voltage: I / P-O / P: 2500VAC
- Insulation resistance :I / PO / P> 100M Ohms / 500VDC 25 $^{\circ}$ C 70% RH
- Conduction and radiation :comply with EN55011, EN55022 (CISPR22)
- Electrostatic discharge :IEC / EN 61000-4-2 level 4 8kV / 15kV
- RF radiation Immunity: IEC / EN 61000-4-3



Dimensions:



| 1.0 | ction@ AC@ |
|-----|---------------|
| 2* | ACe |
| 3₽ | -V02 |
| 4₽ | +V0.0 |