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

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

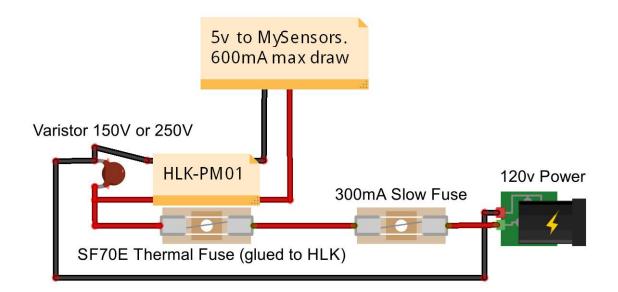
Electrical Characteristics

- Rated input voltage: 100-240 VAC
- Input voltage range: 90-264 VAC
- Maximum input voltage: ≤270 VAC
- Maximum input current: ≤0.2 A
- Input current surge: ≤10 A
- Enter slow start: <50 ms
- Input Low Voltage Efficiency: Vin=110VAC, Output full-load≥69%
- 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: $+5 \text{ VDC} \pm 0.2$
- 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
 - o Rated input voltage, full load. Using 20MHz of bandwidth,
 - o The load side 10uF and 0.1uF capacitor to be tested.

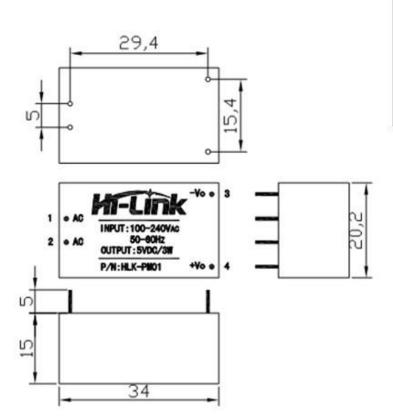
- Switch overshoot amplitude: ≤5 % VO (Rated input voltage and output load plus 10%)
- Output over-current protection: 150-200% of the output maximum load (A)
- Output short circuit protection: Direct short circuit at the normal output, automatically resume normal operation after a short circuit removal

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 °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:



Weight:≤20g		ø
Pin Function₽		48
1₽	AC₽	Þ
2⁴3	AC₽	ته
3₽	-V0 ³	Þ
4₽	+V0+	4J