

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+105°C
- No additional components required
- Stable performance and high reliability (MTBF≥120K hours)
- Industry standard pin-out
- Aluminium case



Selection Guide

| Part No. | INPUT | | OUTPUT | | | | Capacitive Load(μF) |
|-----------|--------------|-------------|----------------|--------------|----------------|--------------|---------------------|
| | Normal (Vdc) | Range (Vdc) | Voltage (V1dc) | current (mA) | Voltage (V2dc) | current (mA) | |
| LT5-M2S05 | 500 | 100-1000 | 5 | 1000 | | | |
| LT5-M2S12 | | | 12 | 417 | | | |
| LT5-M2S15 | | | 15 | 333 | | | |
| LT5-M2S24 | | | 24 | 208 | | | |
| LT5-M2D05 | | | +5 | 500 | -5 | 500 | |
| LT5-M2D12 | | | +12 | 208 | -12 | 208 | |
| LT5-M2D15 | | | +15 | 167 | -15 | 167 | |
| LT5-M2D24 | | | +24 | 104 | -24 | 104 | |

customized accepted, pls contact sales for details

Input Specifications

| Input Voltage Range | Input Voltage Range (Vdc) | Nom(Vdc) | Max (Vdc) |
|-----------------------------|---------------------------|----------|-----------|
| | 100-1000 | 500 | 1000 |
| Item | Min | Typ | Max |
| surge current | - | 20A | - |
| Input Under Voltage Protect | - | 190VDC | - |

Output Specifications

| Item | Typ | Max | Test Conditions |
|---------------------------------|----------|----------|---|
| Voltage Accuracy | ±2% | - | 5%-100% load |
| No-load Output Voltage Accuracy | ±1.5% | ±5% | Input voltage range |
| Balance Of Output Voltage | ±0.5% | ±1% | Dual output, balanced load |
| Line Regulation | ±1% | ±2% | Input voltage variation from low to high at full load |
| Load Regulation | ±1% | ±3% | 5%-100% load |
| Ripple&Noise | 100mVp-p | 120mVp-p | 24VDC output |
| | 50 | 80 | Others |

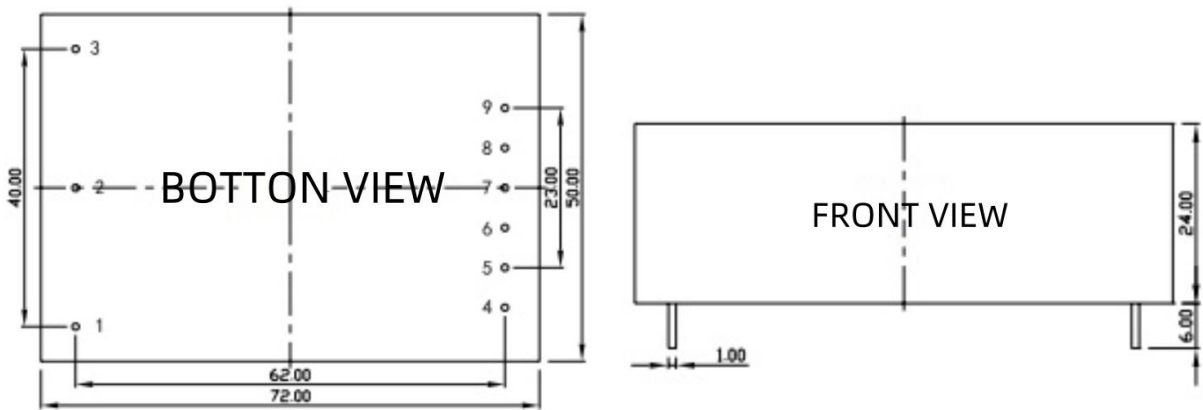
General Specifications

| | | |
|--------------------------|---------------------------|---------------------------------------|
| Switching Frequency | 100KHz(Typ) | 100% full load, nominal input voltage |
| Short-Circuit Protection | Continuous, self-recovery | |

| | | |
|--------------------------------------|---------------------|---|
| Case Temperature Rise | 25°C (Typ) | |
| Temperature Coefficient | 0.03%/°C | 100% full load |
| Pin Soldering Resistance Temperature | 300°C | Soldering spot is 1.5mm away from case for 10 seconds |
| Isolation (Input-Output) | 1.5KVDC | Input-output electric strength test for 1 minute with a leakage current |
| Insulation Resistance (Input-Output) | 100MΩ | Input-output resistance 500Vdc |
| Operating Temperature | -40~+105°C | |
| Storage Temperature | -55~+125°C | |
| Storage Humidity | <95% | Non-condensing |
| Cooling Method | Free air convection | |
| Case Material | Aluminum alloy | |
| Weight | 70g (Typ) | |

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.

Dimensions and Recommended Layout

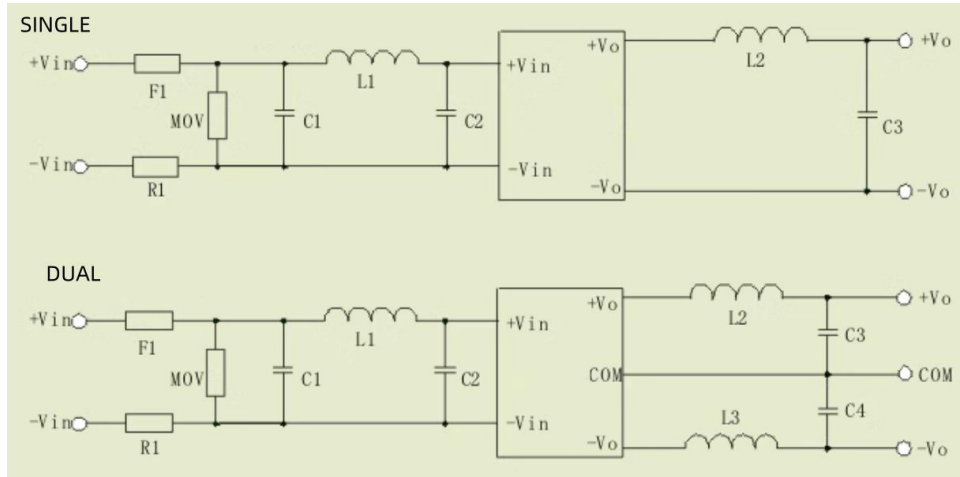


Unit:mm

Pins

| Pin | Single | Dual | |
|-----|--------|--------|--|
| 1 | -Vin | -Vin | |
| 2 | No Pin | No Pin | |
| 3 | +Vin | +Vin | |
| 4 | No Pin | No Pin | |
| 5 | -Vo | -Vo | |
| 6 | No Pin | No Pin | |
| 7 | No Pin | COM | |
| 8 | No Pin | No Pin | |
| 9 | +Vo | +Vo | |

Recommended Circuit



| | |
|-------|--|
| F1 | Input fuse, slow fuse |
| MOV | 14D152K |
| R1 | NTC, negative temperature coefficient thermistor (e.g. 10D-15) |
| C1,C2 | 1uF/2000V, high voltage capacitor (such as CBB capacitor) |
| L1,L2 | 2.2uH-10uH |
| C3 | 10uF-100uF |

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.