

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- No additional components required
- Stable performance and high reliability (MTBF \geq 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)	
LT10-M2S05	500	100-1000	5	2000			
LT10-M2S12			12	833			
LT10-M2S15			15	667			
LT10-M2S24			24	417			
LT10-M2D05			+5	1000	-5	1000	
LT10-M2D12			+12	417	-12	417	
LT10-M2D15			+15	333	-15	333	
LT10-M2D24			+24	208	-24	208	

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	Test Conditions
surge current	-	20A	-	210VDC
Input Under Voltage Protect	-	190VDC	-	

Output Specifications

Item	Typ	Max	Test Conditions	
Voltage Accuracy	$\pm 2\%$	-	5%-100% load	
No-load Output Voltage Accuracy	$\pm 1.5\%$	$\pm 5\%$	Input voltage range	
Balance Of Output Voltage	$\pm 0.5\%$	$\pm 1\%$	Dual output, balanced load	
Line Regulation	$\pm 1\%$	$\pm 2\%$	Input voltage variation from low to high at full load	
Load Regulation	$\pm 1\%$	$\pm 3\%$	5%-100% load	
Ripple&Noise	100mVp-p	120mVp-p	24VDC output	20MHz Bandwidth, full load
	50	80	Others	

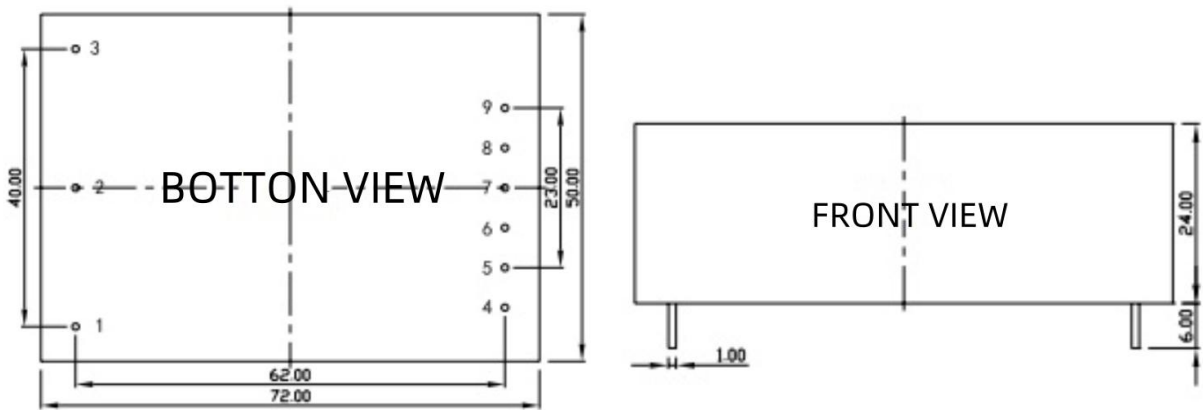
General Specifications

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

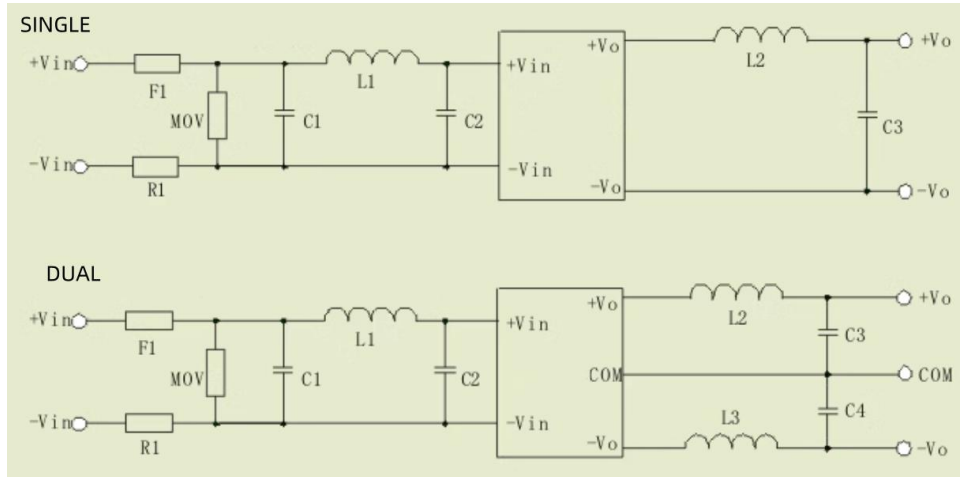


Unit:mm

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.