

FEATURES:

- Comply with RoHS standard, UL1950, IEC950 safety procedures
- Wide voltage input range, broadband noise filtering; Low ripple output
- Typical efficiency 82%
- High isolation voltage, short circuit, overload, overheat protection self-recovery
- Miniaturized design
- Fast dynamic response
- Size: 98*52.5*21.5mm
- Weight: 5KG
- Widely used in military, communications, industrial control, transportation, electric power, new energy and scientific research and experiment and other fields



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)		
	Normal (VAC)	Range (VAC)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)			
LD50E-12S05	12	9-18	5	10000					
LD50E-12S12			12	4200					
LD50E-12S15			15	3300					
LD50E-12S24			24	2100					
LD50E-12S28			28	1750					
LD50E-12S48			48	1000					
LD50E-12D05			+5	5000	-5	5000			
LD50E-12D12			+12	2083	-12	2083			
LD50E-12D15			+15	1667	-15	1667			
LD50E-12D24			+24	1042	-24	1042			
LD50E-12D28			+28	893	-28	893			
LD50E-12D48			+48	521	-48	521			
LD50E-12S05S12			+5	3000	+12	2917			
LD50E-12S05S24			+5	3000	+24	1458			
LD50E-24S05			24	18-36	5	10000			
LD50E-24S12					12	4200			
LD50E-24S15	15	3300							
LD50E-24S24	24	2100							
LD50E-24S28	28	1750							
LD50E-24S36	36	1389							
LD50E-24S48	48	1000							
LD50E-24D05	+5	5000			-5	5000			
LD50E-24D12	+12	2083			-12	2083			
LD50E-24D15	+15	1667			-15	1667			
LD50E-24D24	+24	1042			-24	1042			
LD50E-24D28	+28	893			-28	893			

LD50E-24D48			+48	521	-48	521			
LD50E-24S05S12			+5	3000	+12	2917			
LD50E-24S05S24			+5	3000	+24	1458			
LD50E-48S05	48	36-72	5	10000					
LD50E-48S12			12	4200					
LD50E-48S15			15	3300					
LD50E-48S24			24	2100					
LD50E-48S28			28	1750					
LD50E-48S48			48	1000					
LD50E-48D05			+5	5000	-5	5000			
LD50E-48D12			+12	2083	-12	2083			
LD50E-48D15			+15	1667	-15	1667			
LD50E-48D24			+24	1042	-24	1042			
LD50E-48D28			+28	893	-28	893			
LD50E-48D48			+48	521	-48	521			
LD50E-48S05S12			+5	3000	+12	2917			
LD50E-48S05S24			+5	3000	+24	1458			
LD50E-110S05			110	72-144	5	10000			
LD50E-110S12					12	4200			
LD50E-110S15					15	3300			
LD50E-110S24					24	2100			
LD50E-110S28					28	1750			
LD50E-110S48					48	1000			
LD50E-110D05	+5	5000			-5	5000			
LD50E-110D12	+12	2083			-12	2083			
LD50E-110D15	+15	1667			-15	1667			
LD50E-110D24	+24	1042			-24	1042			
LD50E-110D28	+28	893			-28	893			
LD50E-110D48	+48	521			-48	521			
LD50E-110S05S12	+5	3000			+12	2917			
LD50E-110S05S24	+5	3000			+24	1458			

customized accepted,pls contact sales for details

Input Specifications

	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
Input Voltage Range	9-18	12	18
	18-36	24	36
	36-72	48	72
	72-144	110	144

Output Specifications

Item	Min	Typ	Max	Test Conditions
Voltage Accuracy		±1%		
Voltage Adjust Rate		±0.2%		

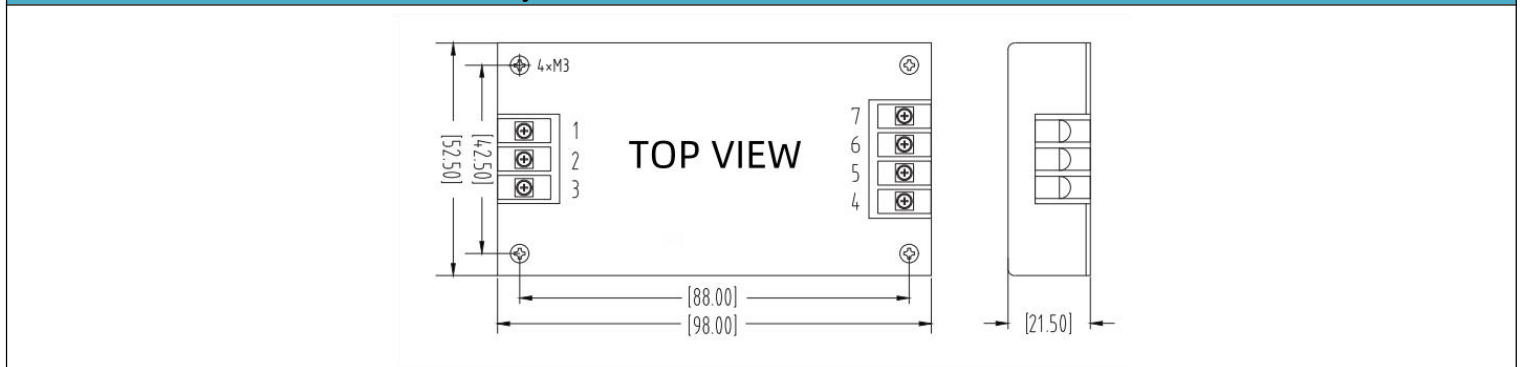
Load Regulation		±0.5%	
Auxiliary Voltage Accuracy		±3%	
Ripple&Noisy		±1%	
Temperature Regulation		±0.02%/°C	
Over Current Protect	120%		150%
Short Circuit Protect	Burp type, self-recovery		
Dynamic Response	400µS		25% load

General Specifications

Isolation Resistor	200MΩ	Input-Output
Isolation Voltage	1000VDC	Input-Output
	500VDC	Input-Case
	500VDC	Output-Case
Switching Frequency	300KHz	Mil HDBK 217F Tc=25°C
MTBF	200000Hrs	
Case Temperature	-40~+100°C	
Storage Temperature	-55~+125°C	
Relative Humidity	5%-90%	
Pin Solder Temperature	250°C	Soldering spot is 1.5mm away from case for 10 seconds
Hand Soldering Time	5s	Iron Temperature 425 °C
Temperature Coefficient	±0.02%/°C	
Shock	5G	10~55Hz
Cooling	Free Air	
Weight	5KG (Typ)	

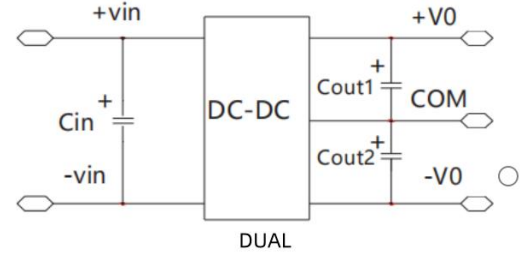
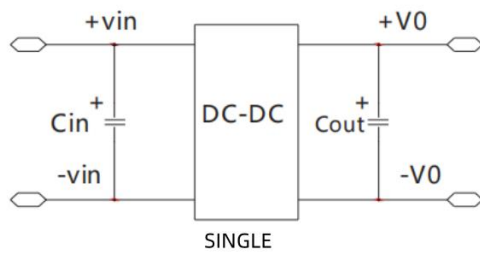
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.

Dimensions and Recommended Layout



Unit:mm

Recommended Circuit

**Remark:**

Adding input capacitor CIN helps to improve electromagnetic compatibility. Electrolytic capacitor 47 uf-100uf CIN is recommended. If the module is connected to a digital circuit, add cout, cout1, cout2

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.