

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: 139*88*27mm
- Weight:490g
- 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 (A)	Voltage (V2dc)	current (A)	
LD150E-12S05	12	9-18	5	30			
LD150E-12S12			12	12.5			
LD150E-12S15			15	10			
LD150E-12S19			19	7.89			
LD150E-12S24			24	6.25			
LD150E-12S28			28	5.36			
LD150E-12S48			48	3.13			
LD150E-12D05			+5	15	-5	15	
LD150E-12D12			+12	6.25	-12	6.25	
LD150E-12D15			+15	5	-15	5	
LD150E-12D24			+24	3.125	-24	3.125	
LD150E-12D28			+28	2.67	-28	2.67	
LD150E-12D48			+48	1.56	-48	1.56	
LD150E-24S05			24	18-36	5	30	
LD150E-24S12	12	12.5					
LD150E-24S15	15	10					
LD150E-24S19	19	7.89					
LD150E-24S24	24	6.25					
LD150E-24S28	28	5.36					
LD150E-24S48	48	3.13					
LD150E-24D05	+5	15			-5	15	
LD150E-24D12	+12	6.25			-12	6.25	
LD150E-24D15	+15	5			-15	5	
LD150E-24D24	+24	3.125			-24	3.125	
LD150E-24D28	+28	2.67			-28	2.67	

LD150E-24D48			+48	1.56	-48	1.56			
LD150E-48S05	48	36-72	5	30					
LD150E-48S12			12	12.5					
LD150E-48S15			15	10					
LD150E-48S19			19	7.89					
LD150E-48S24			24	6.25					
LD150E-48S28			28	5.36					
LD150E-48S48			48	3.13					
LD150E-48D05			+5	15	-5	15			
LD150E-48D12			+12	6.25	-12	6.25			
LD150E-48D15			+15	5	-15	5			
LD150E-48D24			+24	3.125	-24	3.125			
LD150E-48D28			+28	2.67	-28	2.67			
LD150E-48D48			+48	1.56	-48	1.56			
LD150E-110S05			110	72-144	5	30			
LD150E-110S12					12	12.5			
LD150E-110S15	15	10							
LD150E-110S19	19	7.89							
LD150E-110S24	24	6.25							
LD150E-110S28	28	5.36							
LD150E-110S48	48	3.13							
LD150E-110D05	+5	15			-5	15			
LD150E-110D12	+12	6.25			-12	6.25			
LD150E-110D15	+15	5			-15	5			
LD150E-110D24	+24	3.125			-24	3.125			
LD150E-110D28	+28	2.67			-28	2.67			
LD150E-110D48	+48	1.56			-48	1.56			
LD150E-18S05	18	9-36			5	30			
LD150E-18S12					12	12.5			
LD150E-18S15			15	10					
LD150E-18S19			19	7.89					
LD150E-18S24			24	6.25					
LD150E-18S28			28	5.36					
LD150E-18S48			48	3.13					
LD150E-18D05			+5	15	-5	15			
LD150E-18D12			+12	6.25	-12	6.25			
LD150E-18D15			+15	5	-15	5			
LD150E-18D24			+24	3.125	-24	3.125			
LD150E-18D28			+28	2.67	-28	2.67			
LD150E-18D48			+48	1.56	-48	1.56			
LD150E-36S05			36	18-72	5	30			
LD150E-36S12					12	12.5			

LD150E-36S15			15	10					
LD150E-36S19			19	7.89					
LD150E-36S24			24	6.25					
LD150E-36S28			28	5.36					
LD150E-36S48			48	3.13					
LD150E-36D05			+5	15	-5	15			
LD150E-36D12			+12	6.25	-12	6.25			
LD150E-36D15			+15	5	-15	5			
LD150E-36D24			+24	3.125	-24	3.125			
LD150E-36D28			+28	2.67	-28	2.67			
LD150E-36D48			+48	1.56	-48	1.56			
LD150E-300S05			300	200-400	5	30			
LD150E-300S12					12	12.5			
LD150E-300S15					15	10			
LD150E-300S19	19	7.89							
LD150E-300S24	24	6.25							
LD150E-300S28	28	5.36							
LD150E-300S48	48	3.13							
LD150E-300D05	+5	15			-5	15			
LD150E-300D12	+12	6.25			-12	6.25			
LD150E-300D15	+15	5			-15	5			
LD150E-300D24	+24	3.125			-24	3.125			
LD150E-300D28	+28	2.67			-28	2.67			
LD150E-300D48	+48	1.56			-48	1.56			

customized accepted,pls contact sales for details

Input Specifications

	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
Input Voltage Range	9-18	12	18
	9-36	18	36
	18-36	24	36
	36-72	48	72
	18-72	36	72
	72-144	110	144
	200-400	300	400

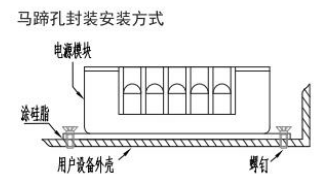
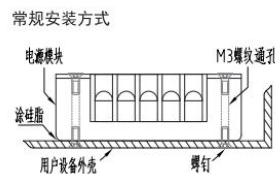
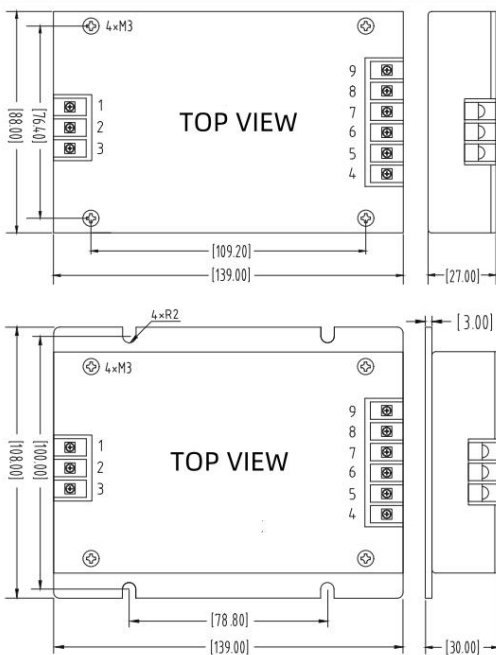
Output Specifications

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℃
MTBF	200000Hrs	
Case Temperature	-40~+100℃	
Storage Temperature	-55~+125℃	
Relative Humidity	5%-90%	
Pin Solder Temperature	250℃	Soldering spot is 1.5mm away from case for 10 seconds
Hand Soldering Time	5s	Iron Temperature 425℃
Temperature Coefficient	±0.02%/℃	
Shock	5G	10~55Hz
Cooling	Free Air	
Weight	490g (Typ)	

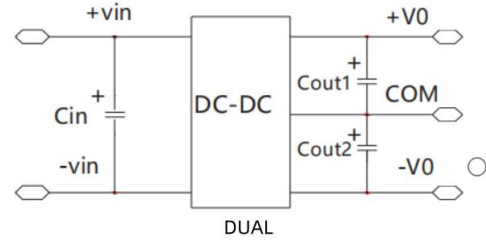
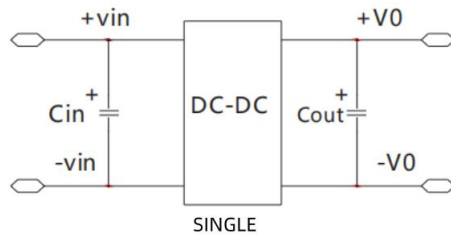
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

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.