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:116*65*21.5mm
- Weight: 260g
- 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)
	Norminal（VAC）	Range（VAC）	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD100E-12S05	12	9-18	5	20000			
LD100E-12S12			12	8300			
LD100E-12S15			15	6600			
LD100E-12S24			24	4200			
LD100E-12S28			28	3570			
LD100E-12S48			48	2000			
LD100E-12D05			+5	10000	-5	10000	
LD100E-12D12			+12	4167	-12	4167	
LD100E-12D15			+15	3333	-15	3333	
LD100E-12D24			+24	2083	-24	2083	
LD100E-12D28			+28	1786	-28	1786	
LD100E-12D48			+48	1042	-48	1042	
LD100E-12S05S12			+5	6000	+12	5833	
LD100E-12S05S24			+5	6000	+24	2917	
LD100E-24S05	24	18-36	5	20000			
LD100E-24S12			12	8300			
LD100E-24S15			15	6600			
LD100E-24S24			24	4200			
LD100E-24S28			28	3570			
LD100E-24S48			48	2000			
LD100E-24D05			+5	10000	-5	10000	
LD100E-24D12			+12	4167	-12	4167	
LD100E-24D15			+15	3333	-15	3333	
LD100E-24D24			+24	2083	-24	2083	
LD100E-24D28			+28	1786	-28	1786	

LD100E-24D48			+48	1042	-48	1042	
LD100E-24S05S12			+5	6000	+12	5833	
LD100E-24S05S24			+5	6000	+24	2917	
LD100E-48S05	48	36-72	5	20000			
LD100E-48S12			12	8300			
LD100E-48S15			15	6600			
LD100E-48S24			24	4200			
LD100E-48S28			28	3570			
LD100E-48S48			48	2000			
LD100E-48D05			+5	10000	-5	10000	
LD100E-48D12			+12	4167	-12	4167	
LD100E-48D15			+15	3333	-15	3333	
LD100E-48D24			+24	2083	-24	2083	
LD100E-48D28			+28	1786	-28	1786	
LD100E-48D48			+48	1042	-48	1042	
LD100E-48S05S12			+5	6000	+12	5833	
LD100E-48S05S24			+5	6000	+24	2917	
LD100E-110S05	110	72-144	5	20000			
LD100E-110S12			12	8300			
LD100E-110S15			15	6600			
LD100E-110S24			24	4200			
LD100E-110S28			28	3570			
LD100E-110S48			48	2000			
LD100E-110D05			+5	10000	-5	10000	
LD100E-110D12			+12	4167	-12	4167	
LD100E-110D15			+15	3333	-15	3333	
LD100E-110D24			+24	2083	-24	2083	
LD100E-110D28			+28	1786	-28	1786	
LD100E-110D48			+48	1042	-48	1042	
LD100E-110S05S12			+5	6000	+12	5833	
LD100E-110S05S24			+5	6000	+24	2917	

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	80	10
	36-72	48	72
	72-144	110	144

Output Specifications

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

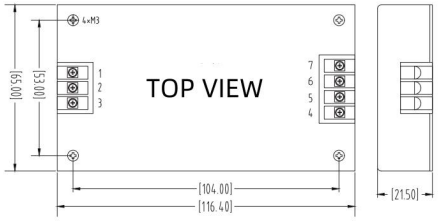
Load Regulation		±0.5%		
Auxiliary Voltage Accuracy		±3%		
Ripple&Noisy		±1%		
Temperature Regulation		±0.02%/℃		
Over Current Protect	120%		150 %	
Short Circuit Protect	Burp type, self-recovery			
Dynamic Response	400μS		25% load	

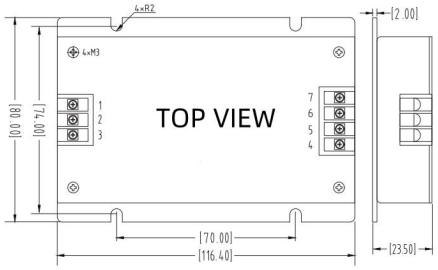
Gerneral Specifications

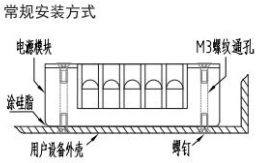
Isolation Resistor	200MΩ	Input-Output
Isolation Voltage	1000VDC	Input-Output
	500VDC	Input-Case
	500VDC	Output-Case
Switching Frequency	300KHz	Mil HDBK 217F Tc=25℃
MTBF	200000Hrs	
Case Temperature	-40~+100℃	
Storage Temperature	-55~+125℃	
Relative Humidity	5%-90%	
Pin Solder Temperature	250℃	Soldering 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	260g（Typ）	

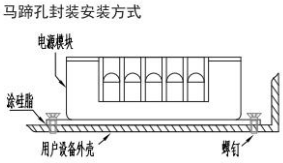
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout



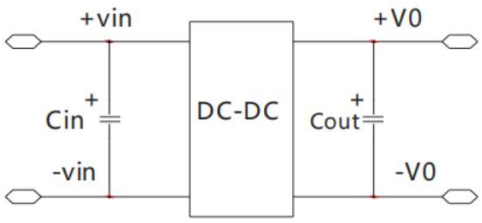




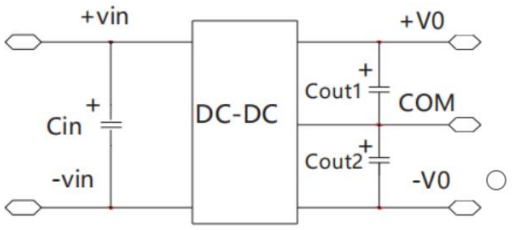


Unit:mm

Recommended Circuit



SINGLE



DUAL

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.