

**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\*23.5mm
- Weight: 160g
- 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 (V2 dc)	current (A)	
LD100E-12S12	12	9-18	12	8.33			
LD100E-12S15			15	6.67			
LD100E-12S19			19	5.26			
LD100E-12S24			24	4.17			
LD100E-12S28			28	3.57			
LD100E-12S48			48	2.08			
LD100E-24S12	24	18-36	12	8.33			
LD100E-24S15			15	6.67			
LD100E-24S19			19	5.26			
LD100E-24S24			24	4.17			
LD100E-24S28			28	3.57			
LD100E-24S48			48	2.08			
LD100E-48S12	48	36-72	12	8.33			
LD100E-48S15			15	6.67			
LD100E-48S19			19	5.26			
LD100E-48S24			24	4.17			
LD100E-48S28			28	3.57			
LD100E-48S48			48	2.08			
LD100E-18S12	18	9-36	12	8.33			
LD100E-18S15			15	6.67			
LD100E-18S19			19	5.26			
LD100E-18S24			24	4.17			
LD100E-18S28			28	3.57			
LD100E-18S48			48	2.08			
LD100E-36S12	36	18-72	12	8.33			

LD100E-36S15			15	6.67			
LD100E-36S19			19	5.26			
LD100E-36S24			24	4.17			
LD100E-36S28			28	3.57			
LD100E-36S48			48	2.08			
LD100E-36S12			12	8.33			
LD100E-36S15			15	6.67			
LD100E-36S19			19	5.26			
LD100E-36S24			24	4.17			
LD100E-36S28			28	3.57			
LD100E-36S48			48	2.08			

\*\*customized accepted,pls contact sales for details\*\*

**Input Specifications**

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

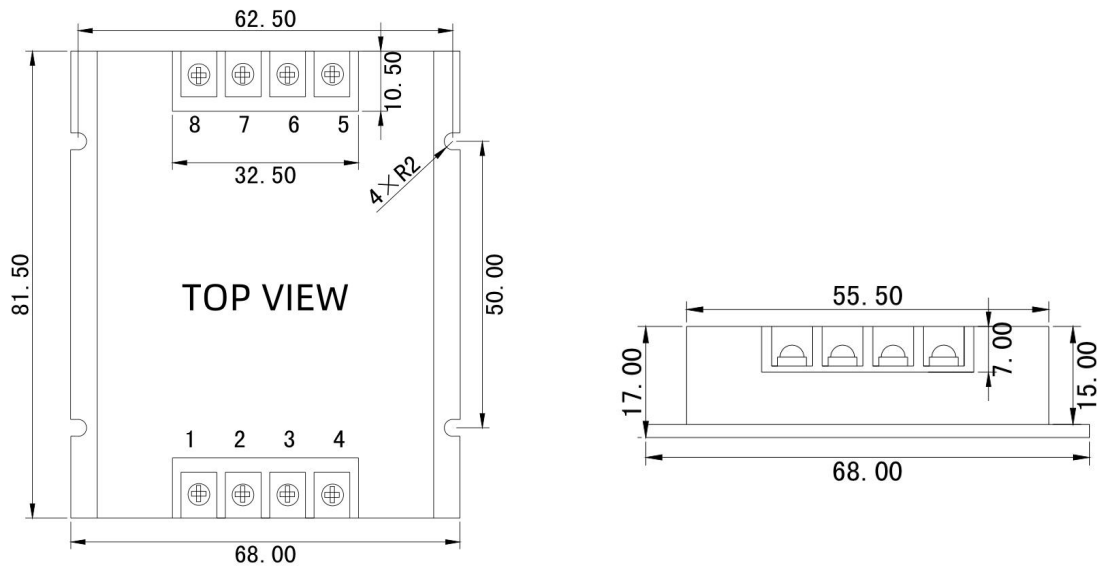
**General Specifications**

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℃	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	160g (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.