FEATURES：

- Wide input range
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD100-12S05	12	9-18	5	2000			
LD100-12S12			12	8333			
LD100-12S15			15	6667			
LD100-12S18			18	5556			
LD100-12S24			24	4167			
LD100-12S28			28	3571			
LD100-12S48			48	2083			
LD100-24S05	24	18-36	5	2000			
LD100-24S12			12	8333			
LD100-24S15			15	6667			
LD100-24S18			18	5556			
LD100-24S24			24	4167			
LD100-24S28			28	3571			
LD100-24S48			48	2083			
LD100-48S05	48	36-72	5	2000			
LD100-48S12			12	8333			
LD100-48S15			15	6667			
LD100-48S18			18	5556			
LD100-48S24			24	4167			
LD100-48S28			28	3571			
LD100-48S48			48	2083			
LD100-48S05	110	72-144	5	2000			
LD100-48S12			12	8333			
LD100-48S15			15	6667			
LD100-48S18			18	5556			
LD100-48S24			24	4167			
LD100-48S28			28	3571			
LD100-48S48			48	2083			

customized accepted,pls contact sales for details

Input Specifications

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

Output Specifications

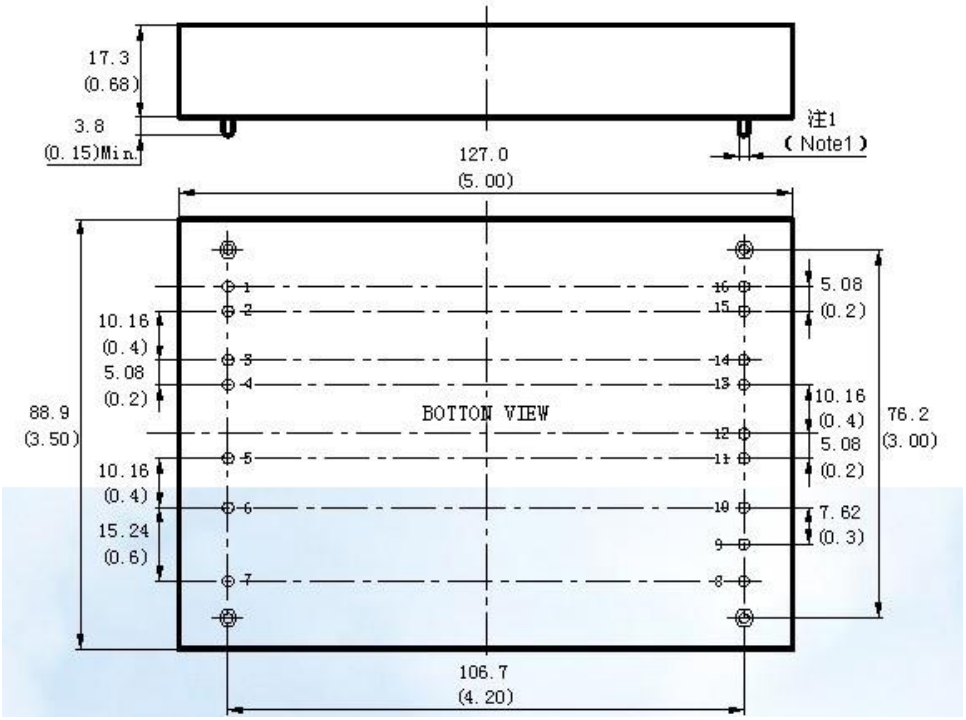
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300μs	500μs	25% load step change, Nominal input voltage
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

Gerneral Specifications

Switching Frequency	300KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25℃
Temperature Coefficient	0.03%/℃	100% full load
Isolation（Input-Output）	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40～+85℃	
Storage Temperature	-55～+125℃	
Storage Humidity	5-95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	60g（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

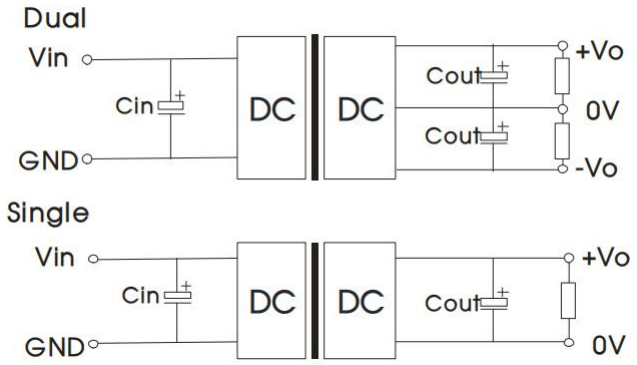


Note:
Unit: mm[inch]
Pin diameter tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.50[± 0.020]

Pins

	Single	Dual	Triple
1	+Vin	+Vin	+Vin
2	+Vin	+Vin	+Vin
3	-Vin	-Vin	-Vin
4	-Vin	-Vin	-Vin
5	FG	FG	FG
6	FG	FG	FG
7	CTRL	CTRL	CTRL
8	-S	-S	Vo3
9	TRIM	TRIM	COM
10	+S	+S	Vo2
11	No Pin	Vo2	No Pin
12	No Pin	Vo2	No Pin
13	GND	COM	GND
14	GND	COM	GND
15	Vo1	Vo1	Vo1
16	Vo1	Vo1	Vo1

Recommended Circuit



Recommended input and output capacitor values				
Vin	Cin	Cout		
5	100uF/16V			
12	100uF/25V			
24	10uF/50V-47uF/50V			
48	10uF/100V-47uF/100V			

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.