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)	
LD30-12S05D	12	9-18	5	6000			
LD30-12S12D			12	2500			
LD30-12S15D			15	2000			
LD30-12S18D			18	1667			
LD30-12S24D			24	1250			
LD30-12S28D			28	1071			
LD30-12S48D			48	625			
LD30-12D05D			+5	3000	-5	3000	
LD30-12D12D			+12	1250	-12	1250	
LD30-18S05D	18	9-36	5	6000			
LD30-18S12D			12	2500			
LD30-18S15D			15	2000			
LD30-18S18D			18	1667			
LD30-18S24D			24	1250			
LD30-18S28D			28	1071			
LD30-18S48D			48	625			
LD30-18D05D			+5	3000	-5	3000	
LD30-18D12D			+12	1250	-12	1250	
LD30-24S05D	24	18-36	5	6000			
LD30-24S12D			12	2500			
LD30-24S15D			15	2000			
LD30-24S18D			18	1667			
LD30-24S24D			24	1250			
LD30-24S28D			28	1071			
LD30-24S48D			48	625			
LD30-24D05D			+5	3000	-5	3000	
LD30-24D12D			+12	12	-12	1250	
LD30-36S05D			5	6000			

LD30-36S12D	36	18-72	12	2500			
LD30-36S15D			15	2000			
LD30-36S18D			18	1667			
LD30-36S24D			24	1250			
LD30-36S28D			28	1071			
LD30-36S48D			48	625			
LD30-36D05D			+5	3000	-5	3000	
LD30-36D12D			+12	1250	-12	1250	
LD30-48S05D	48	36-72	5	6000			
LD30-48S12D			12	2500			
LD30-48S15D			15	2000			
LD30-48S18D			18	1667			
LD30-48S24D			24	1250			
LD30-48S28D			28	1071			
LD30-48S48D			48	625			
LD30-48D05D			+5	3000	-5	3000	
LD30-48D12D			+12	1250	-12	1250	
LD30-110S05D	110	72-144	5	6000			
LD30-110S12D			12	2500			
LD30-110S15D			15	2000			
LD30-110S18D			18	1667			
LD30-110S24D			24	1250			
LD30-110S28D			28	1071			
LD30-110S48D			48	625			
LD30-110D05D			+5	3000	-5	3000	
LD30-110D12D			+12	1250	-12	1250	

customized accepted ,pls contact sales for details

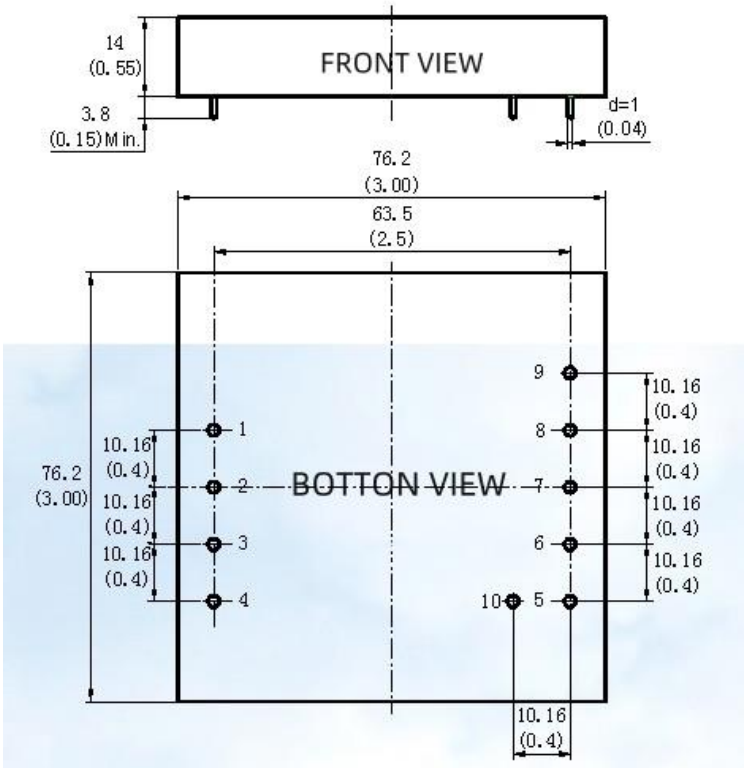
Input Specifications

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

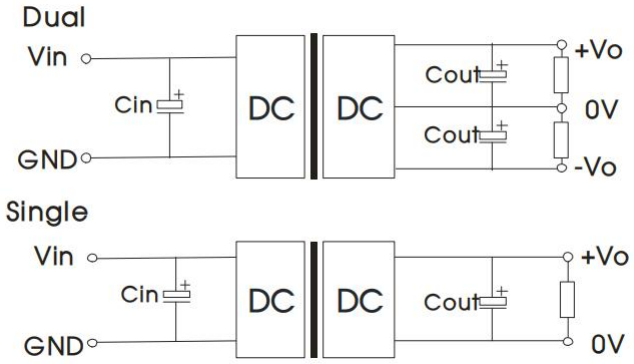


Note:
Unit: mm[inch]
Pin diameter tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.50[± 0.020]

Pins

Pin	Single	Dual	Triple
1	-Vin	-Vin	-Vin
2	+Vin	+Vin	+Vin
3	No Pin	No Pin	No Pin
4	REM	REM	REM
5	TRIM	TRIM	TRIM
6	Vo1	+Vo1	+Vo1
7	GND	COM	COM
8	NC	-Vo2	-Vo2
9	NC	NC	Vo3
10	No Pin	No Pin	No Pin

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.