

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+85°C
- 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)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD40-12S05D	12	9-18	5	8000			
LD40-12S12D			12	3300			
LD40-12S15D			15	2670			
LD40-12S18D			18	2222			
LD40-12S24D			24	1660			
LD40-12S28D			28	1429			
LD40-12S48D			48	833			
LD40-12D05D			+5	4000	-5	4000	
LD40-12D12D			+12	1660	-12	1660	
LD40-18S05D			18	9-36	5	8000	
LD40-18S12D	12	3300					
LD40-18S15D	15	2670					
LD40-18S18D	18	2222					
LD40-18S24D	24	1660					
LD40-18S28D	28	1429					
LD40-18S48D	48	833					
LD40-18D05D	+5	4000			-5V	4000	
LD40-18D12D	+12	1660			-12V	1660	
LD40-24S05D	24	18-36			5	8000	
LD40-24S12D			12	3300			
LD40-24S15D			15	2670			
LD40-24S18D			18	2222			
LD40-24S24D			24	1660			
LD40-24S28D			28	1429			
LD40-24S48D			48	833			
LD40-24D05D			+5	4000	-5	4000	
LD40-24D12D			+12	1660	-12	1660	
LD40-36S05D					5	8000	

LD40-36S12D	36	18-72	12	3300			
LD40-36S15D			15	2670			
LD40-36S18D			18	2222			
LD40-36S24D			24	1660			
LD40-36S28D			28	1429			
LD40-36S48D			48	833			
LD40-36D05D			+5	4000	-5	4000	
LD40-36D12D			+12	1660	-12	1660	
LD40-48S05D			48	36-72	5	8000	
LD40-48S12D	12	3300					
LD40-48S15D	15	2670					
LD40-48S18D	18	2222					
LD40-48S24D	24	1660					
LD40-48S28D	28	1429					
LD40-48S48D	48	833					
LD40-48D05D	+5	4000			-5V	4000	
LD40-48D12D	+12	1660			-12V	1660	
LD40-110S05D	110	72-144	5	8000			
LD40-110S12D			12	3300			
LD40-110S15D			15	2670			
LD40-110S18D			18	2222			
LD40-110S24D			24	1660			
LD40-110S28D			28	1429			
LD40-110S48D			48	833			
LD40-110D05D			+5	4000	-5	4000	
LD40-110D12D			+12	1660	-12	1660	

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

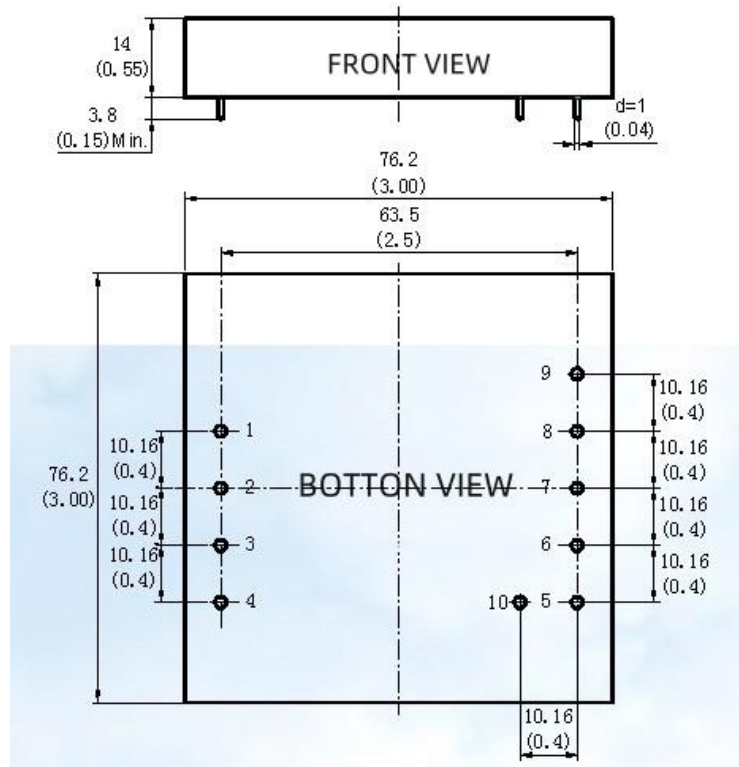
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300µs	500µs	25% load step change, Nominal input voltage
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

General Specifications

Switching Frequency	300KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25°C
Temperature Coefficient	0.03%/°C	100% full load
Isolation (Input-Output)	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40~+85°C	
Storage Temperature	-55~+125°C	
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°C room temperature environment.

Dimensions and Recommended Layout

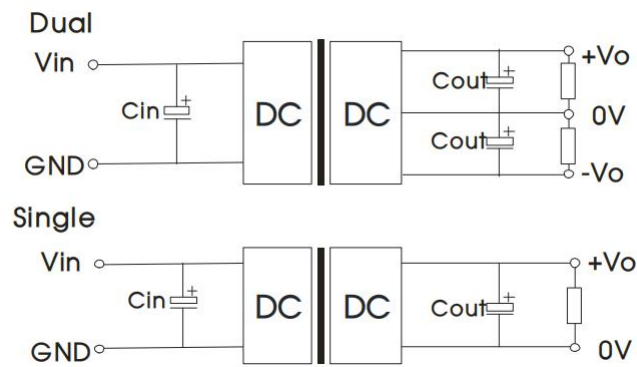


Note:
Unit: mm[inch]
Pin diameter tolerances: $\pm 0.10[\pm 0.004]$
General tolerances: $\pm 0.50[\pm 0.020]$

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.