

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- No additional components required
- Stable performance and high reliability (MTBF \geq 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)			
LD15-12S3V3A	12	9-18	3.3	3000					
LD15-12S05A			5	3000					
LD15-12S09A			9	1600					
LD15-12S12A			12	1250					
LD15-12S15A			15	1000					
LD15-12S18A			18	833					
LD15-12S24A			24	630					
LD15-12S28A			28	536					
LD15-12S48A			48	313					
LD15-12D3V3A					+3.3	500	-3.3	500	
LD15-12D05A					+5	500	-5	500	
LD15-12D09A					+9	830	-9	830	
LD15-12D12A					+12	625	-12	625	
LD15-12D15A					+15	500	-15	500	
LD15-12D24A					+24	310	-24	310	
LD15-18S3V3A			18	9-36	3.3	3000			
LD15-18S05A	5	3000							
LD15-18S09A	9	1600							
LD15-18S15A	15	1000							
LD15-18S18A	18	833							
LD15-18S24A	24	630							
LD15-18S28A	28	536							
LD15-18S48A	48	313							
LD15-18D3V3A					+3.3	500	-3.3V	500	
LD15-18D05A					+5	500	-5V	500	
LD15-18D09A					+9	830	-9V	830	
LD15-18D12A					+12	625	-12V	625	
LD15-18D15A					+15	500	-15V	500	

LD15-18D24A			+24	310	-24	310			
LD15-24S3V3A	24	18-36	3.3	3000					
LD15-24S05A			5	3000					
LD15-24S09A			9	1600					
LD15-24S12A			12	1250					
LD15-24S15A			15	1000					
LD15-24S18A			18	833					
LD15-24S24A			24	630					
LD15-24S28A			28	536					
LD15-24S48A			48	313					
LD15-24D3V3A			+3.3	500	-3.3	500			
LD15-24D05A			+5	500	-5	500			
LD15-24D09A			+9	830	-9	830			
LD15-24D12A			+12	625	-12	625			
LD15-24D15A			+15	500	-15	500			
LD15-24D24A			+24	310	-24	310			
LD15-36S3V3A			36	18-72	3.3	3000			
LD15-36S05A					5	3000			
LD15-36S09A	9	1600							
LD15-36S12A	12	1250							
LD15-36S15A	15	1000							
LD15-36S18A	18	833							
LD15-36S24A	24	630							
LD15-36S28A	28	536							
LD15-36S48A	48	313							
LD15-36D3V3A	+3.3	500			-3.3	500			
LD15-36D05A	+5	500			-5	500			
LD15-36D09A	+9	830			-9	830			
LD15-36D12A	+12	625			-12	625			
LD15-36D15A	+15	500			-15	500			
LD15-36D24A	+24	310			-24	310			
LD15-48S3V3A	48	36-72			3.3	3000			
LD15-48S05A					5	3000			
LD15-48S09A			9	1600					
LD15-48S12A			12	1250					
LD15-48S15A			15	1000					
LD15-48S18A			18	833					
LD15-48S24A			24	630					
LD15-48S28A			28	536					
LD15-48S48A			48	313					
LD15-48D3V3A			+3.3	500	-3.3	500			
LD15-48D05A			+5	500	-5	500			

LD15-48D09A			+9	830	-9	830	
LD15-48D12A			+12	625	-12	625	
LD15-48D15A			+15	500	-15	500	
LD15-48D24A			+24	310	-24	310	
LD15-110S3V3A	110	72-144	3.3	3000			
LD15-110S05A			5	3000			
LD15-110S09A			9	1600			
LD15-110S12A			12	1250			
LD15-110S15A			15	1000			
LD15-110S18A			18	833			
LD15-110S24A			24	630			
LD15-110S28A			28	536			
LD15-110S48A			48	313			
LD15-110D3V3A			+3.3	500	-3.3	500	
LD15-110D05A			+5	500	-5	500	
LD15-110D09A			+9	830	-9	830	
LD15-110D12A			+12	625	-12	625	
LD15-110D15A			+15	500	-15	500	
LD15-110D24A			+24	310	-24	310	

customized accepted,pls contact sales for details

Input Specifications

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

Hot Plug Unavailable

Output Specifications

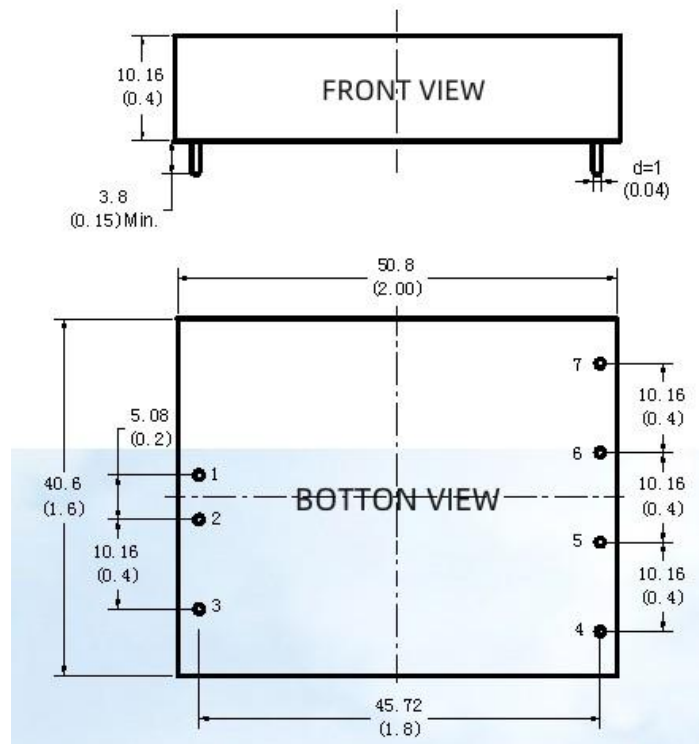
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300µs	500µs	25% load step change, Nominal 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	12g (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



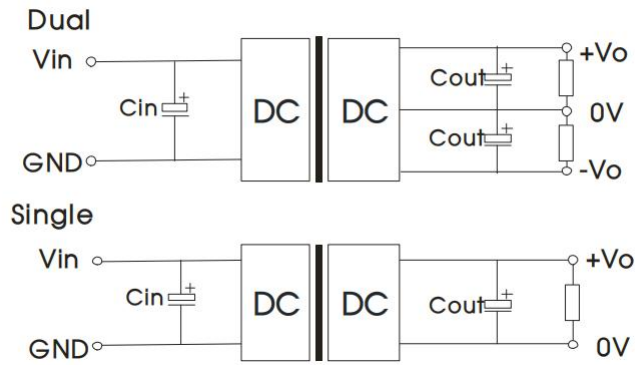
Note:
Unit: mm[inch]
Pin diameter tolerances: ± 0.10 [± 0.004]
General tolerances: ± 0.50 [± 0.020]

Pins

Pin	Single	Dual	
1	+Vin	+Vin	
2	-Vin	-Vin	

3	REM	REM	
4	TRIM	TRIM	
5	GND	-Vo2	
6	Vo1	COM	
7	No Pin	+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.