

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: 2X10⁵Hrs)
- Industry standard pin-out
- DIP package



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Normalal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD50-12S05C	12	9-18	5	10000			
LD50-12S12C			12	4167			
LD50-12S15C			15	3333			
LD50-12S24C			24	2083			
LD50-18S05C	18	9-36	5	10000			
LD50-18S12C			12	4167			
LD50-18S15C			15	3333			
LD50-18S24C			24	2083			
LD50-24S05C	24	18-36	5	10000			
LD50-24S12C			12	4167			
LD50-24S15C			15	3333			
LD50-24S24C			24	2083			
LD50-48S05C	48	36-72	5	10000			
LD50-48S12C			12	4167			
LD50-48S15C			15	3333			
LD50-48S24C			24	2083			
LD50-36S05C	36	18-72	5	10000			
LD50-36S12C			12	4167			
LD50-48S15C			15	3333			
LD50-48S24C			24	2083			
LD50-110S05C	110	40-160	5	10000			
LD50-110S12C			12	4167			
LD50-110S15C			15	3333			
LD50-110S24C			24	2083			

customized accepted,pls contact sales for details

Input Specifications

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

Input Voltage	9-36	18	36
	18-36	24	36
	18-75	36	72
	36-75	48	72
	40-160	110	160

Hot Plug	Unavailable
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Output Specifications

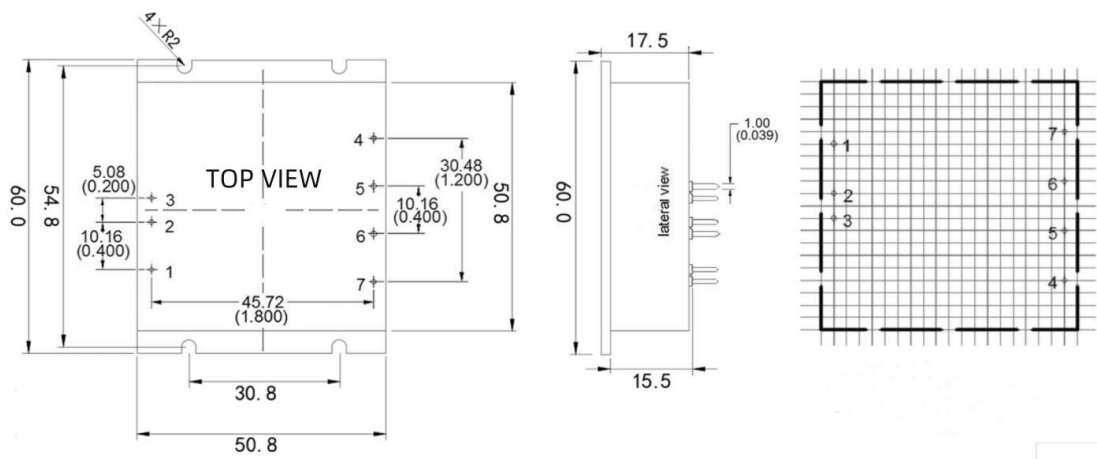
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	-	200%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

General Specifications

Switching Frequency	280KHz(Typ)	PWM mode
MTBF	2X10 ⁵ Hrs	MIL-HDBK-217F@25℃
Isolation (Input-Output)	1.5KVDC	
Operating Temperature	-40~+85℃	
Storage Temperature	-55~+125℃	
Storage Humidity	5-95%RH	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	50g (Typ)	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

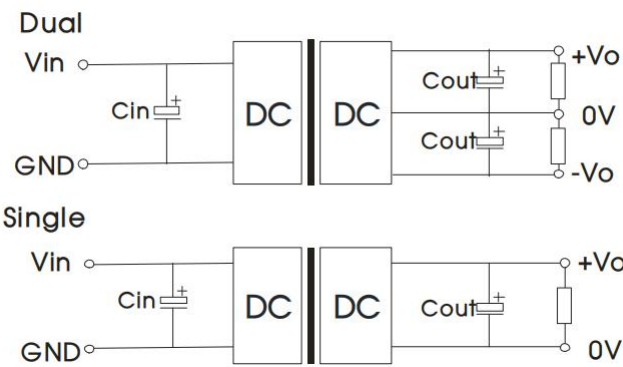
Dimensions and Recommended Layout



Unit:mm(inch)

Pins			
Pin	Single		
1	CTRL		
2	-Vin		
3	+Vin		
4	NO PIN		
5	+Vo		
6	-Vo		
7	TRIM		

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			

Note

1. The product should be used within the specified range; otherwise, it may cause permanent damage to the product.
2. If the product operates beyond its load range, it cannot be guaranteed that all performance indicators of the product

comply with those in this manual.

3. Unless otherwise specified, all the above data were measured at $T_a=25^{\circ}\text{C}$, humidity $<75\%$, input nominal voltage and output rated load (pure resistance load).

4. The above are all performance indicators of the product models listed in this manual. Some indicators of non-standard models may exceed the above requirements. For specific situations, you can directly contact our technical personnel.

5. Product specification changes will not be notified separately. Please pay attention to the latest manual published on our company's official website.

*The final interpretation right of the product belongs to ECCO ELECTRONICS.