

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)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD100-12S05	12	9-18	5	20000			
LD100-12S12			12	8333			
LD100-12S15			15	6667			
LD100-12S24			24	4167			
LD100-18S05	18	9-36	5	20000			
LD100-18S12			12	8333			
LD100-18S15			15	6667			
LD100-18S24			24	4167			
LD100-24S05	24	18-36	5	20000			
LD100-24S12			12	8333			
LD100-24S15			15	6667			
LD100-24S24			24	4167			
LD100-48S05	48	36-72	5	20000			
LD100-48S12			12	8333			
LD100-48S15			15	6667			
LD100-48S24			24	4167			
LD100-36S05	36	18-72	5	20000			
LD100-36S12			12	8333			
LD100-48S15			15	6667			
LD100-48S24			24	4167			
LD100-110S05	110	40-160	5	20000			
LD100-110S12			12	8333			
LD100-110S15			15	6667			
LD100-110S24			24	4167			

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
	18-72	36	72
	36-72	48	72
	40-160	110	160

Hot Plug	Unavailable
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Output Specifications

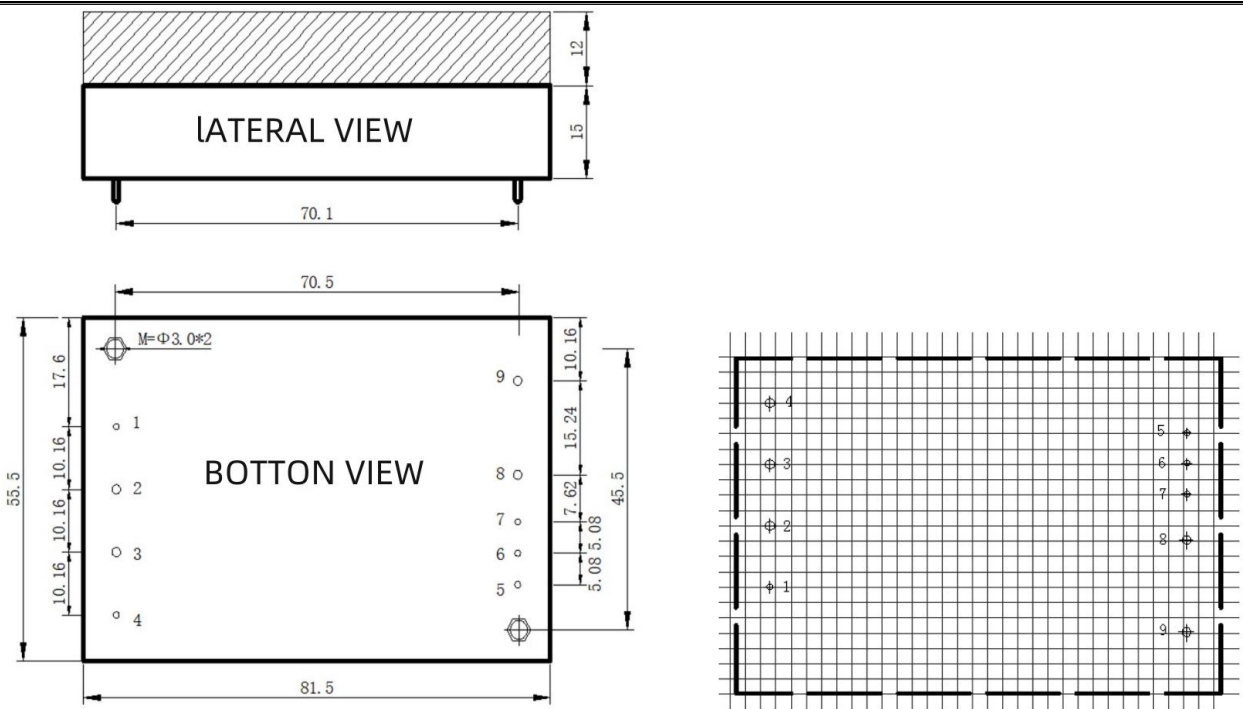
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo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

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

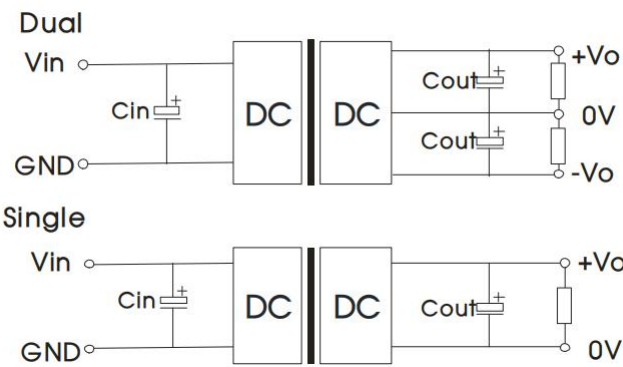
Dimensions and Recommended Layout



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			
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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 Ta=25℃, 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.