

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: 2×10^5 Hrs)
- Industry standard pin-out
- Metal case
- DIP package



Selection Guide

Part No.	INPUT		OUTPUT				Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD10-12S05A	12	9-18	5	2000			
LD10-12S09A			9	1110			
LD10-12S12A			12	830			
LD10-12S15A			15	660			
LD10-12S24A			24	410			
LD10-12D05A			+5	-1000	-5	-1000	
LD10-12D09A			+9	-555	-9	-555	
LD10-12D12A			+12	+416	-12	-416	
LD10-12D15A			+15	+333	-15	-333	
LD10-12D24A			+24	+208	-24	-208	
LD10-18S05A	18	9-36	5	2000			
LD10-18S09A			9	1110			
LD10-18S12A			12	830			
LD10-18S15A			15	660			
LD10-18S24A			24	410			
LD10-18D05A			+5	-1000	-5	-1000	
LD10-18D09A			+9	-555	-9	-555	
LD10-18D12A			+12	+416	-12	-416	
LD10-18D15A			+15	+333	-15	-333	
LD10-18D24A			+24	+208	-24	-208	
LD10-24S05A	24	18-36	5	2000			
LD10-24S09A			9	1110			
LD10-24S12A			12	830			
LD10-24S15A							

LD10-24D15A			+15	+333	-15	-333	
LD10-24D24A			+24	+208	-24	-208	
LD10-48S05A	48	36-75	5	2000			
LD10-48S12A			12	830			
LD10-48S15A			15	660			
LD10-48S24A			24	410			
LD10-48D05A			+5	-1000	-5	-1000	
LD10-48D12A			+12	+416	-12	-416	
LD10-48D15A			+15	+333	-15	-333	
LD10-48D24A			+24	+208	-24	-208	
LD10-36S05A	36	18-75	5	2000			
LD10-36S12A			12	830			
LD10-36S15A			15	660			
LD10-36S24A			24	410			
LD10-36D05A			+5	-1000	-5	-1000	
LD10-36D12A			+12	+416	-12	-416	
LD10-36D15A			+15	+333	-15	-333	
LD10-36D24A			+24	+208	-24	-208	
LD10-110S05A	110	40-160	5	2000			
LD10-110S12A			12	830			
LD10-110S15A			15	660			
LD10-110S24A			24	410			
LD10-110D05A			+5	-1000	-5	-1000	
LD10-110D12A			+12	+416	-12	-416	
LD10-110D15A			+15	+333	-15	-333	
LD10-110D24A			+24	+208	-24	-208	

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
	36-75	48	75
	18-75		

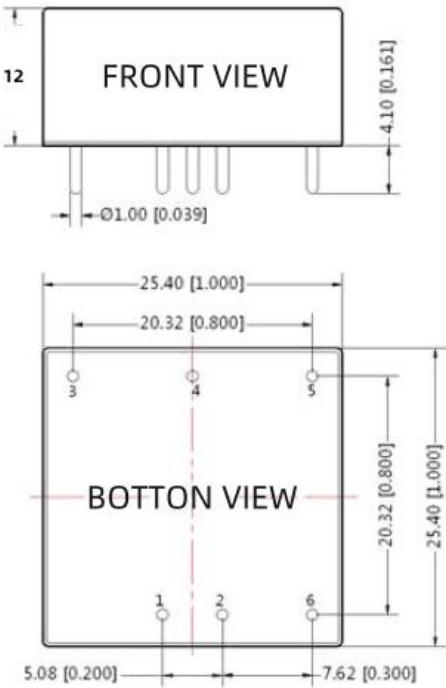
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	-	200%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

General Specifications

Switching Frequency	280KHz(Typ)	PWM mode
MTBF	2X10 ⁵ Hrs	MIL-HDBK-217F@25℃
Temperature Coefficient	0.03%/℃	100% full load
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	15g (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



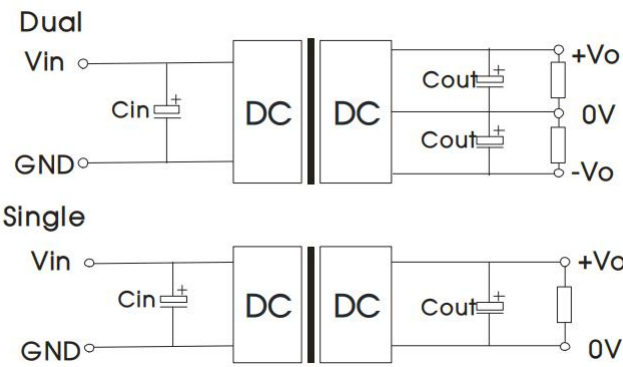
Unit:mm(inch)

Pins

Pin-Out	Mark		
1	+Vin		

2	-Vin		
3	GND		
4	No Pin		
5	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. 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.