

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				CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD15-12S05B	12	9-18	5	2400			
LD15-12S12B			12	1200			
LD15-12S15B			15	1000			
LD15-12S18B			18	833			
LD15-12S24B			24	630			
LD15-12S28B			28	536			
LD15-12S48B			48	313			
LD15-12D12B			+12	625	-12	625	
LD15-12D15B			+15	500	-15	500	
LD15-12D24B			+24	310	-24	310	
LD15-18S05B	18	9-36	5	2400			
LD15-18S12B			12	1200			
LD15-18S15B			15	1000			
LD15-18S18B			18	833			
LD15-18S24B			24	630			
LD15-18S28B			28	536			
LD15-18S48B			48	313			
LD15-18D12B			+12	625	-12	625	
LD15-18D15B			+15	500	-15	500	
LD15-18D24B			+24	310	-24	310	
LD15-24S05B	24	18-36	5	2400			
LD15-24S12B			12	1200			
LD15-24S15B			15	1000			
LD15-24S18B			18	833			
LD15-24S19B			19	789			
LD15-24S24B			24	630			
LD15-24S28B			28	536			
LD15-24S48B			48	313			

LD15-24D12B			+12	625	-12	625	
LD15-24D15B			+15	500	-15	500	
LD15-24D24B	36	18-72	+24	310	-24	310	
LD15-36S05B			5	3000			
LD15-36S12B			12	1200			
LD15-36S15B			15	1000			
LD15-36S18B			18	833			
LD15-36S24B			24	630			
LD15-36S28B			28	536			
LD15-36S48B			48	313			
LD15-36D12B			+12	625	-12	625	
LD15-36D15B			+15	500	-15	500	
LD15-36D24B			+24	310	-24	310	
LD15-48S05B	48	36-72	5V	3000			
LD15-48S12B			12	1200			
LD15-48S15B			15	1000			
LD15-48S18B			18	833			
LD15-48S24B			24	630			
LD15-48S28B			28	536			
LD15-48S48B			48	313			
LD15-48D12B			+12	625	-12	625	
LD15-48D15B			+15	500	-15	500	
LD15-48D24B			+24	310	-24	310	
LD15-110S12B	110	40-160	12	1200			
LD15-110S15B			15	1000			
LD15-110S18B			18	833			
LD15-110S24B			24	630			
LD15-110S28B			28	536			
LD15-110S48B			48	313			
LD15-110D12B			+12	625	-12	625	
LD15-110D15B			+15	500	-15	500	
LD15-110D24B			+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
	18-72	36	72
	36-72	48	72
	40-160	110	160

Hot Plug

Unavailable

Output Specifications

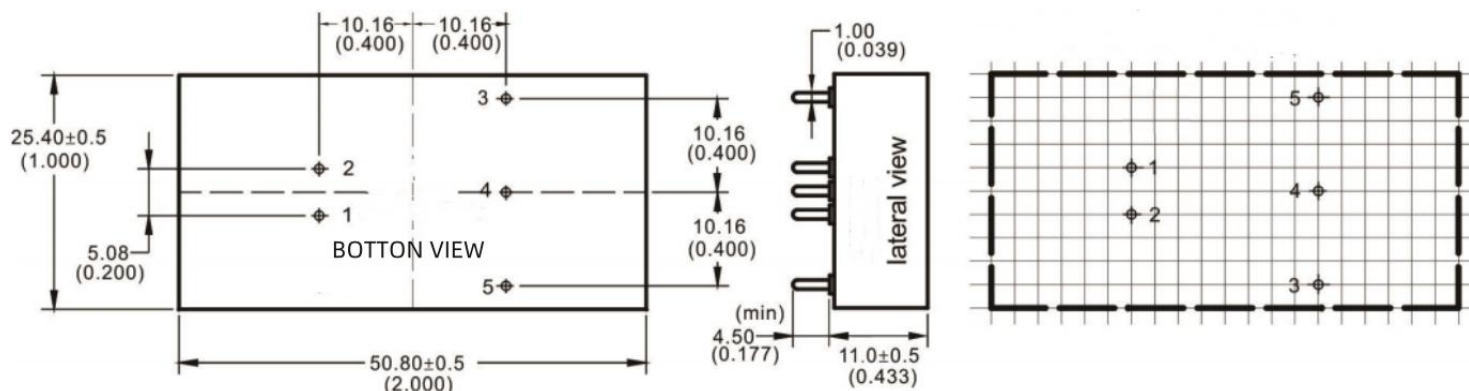
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo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



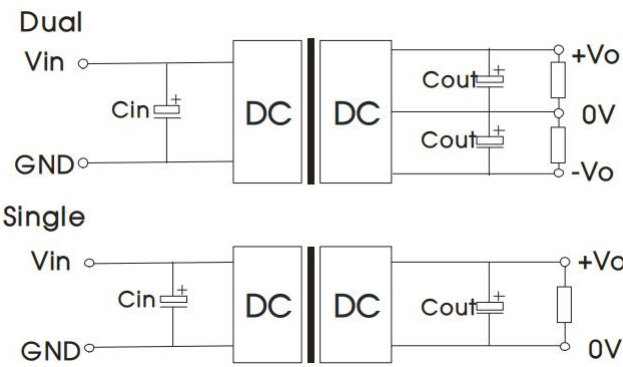
Unit:mm(inch)

Pins

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

4	No Pin	COM	
5	-Vo	-Vo	

Recommended Circuit



Recommended input and output capacitor values

V_{in}	C_{in}	C_{out}		
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.