

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
- DIP package



Selection Guide

Part No.	INPUT		OUTPUT				Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD40-12S05E	12	9-18	5	8000			
LD40-12S12E			12	3330			
LD40-12S15E			15	2667			
LD40-12S24E			24	1667			
LD40-12D05E			+5	4000	-5	4000	
LD40-12D12E			+12	1667	-12	1667	
LD40-12D15E			+15	1333	-15	1333	
LD40-12D24E			+24	833	-24	833	
LD40-18S05E	18	9-36	5	8000			
LD40-18S12E			12	3330			
LD40-18S15E			15	2667			
LD40-18S24E			24	1667			
LD40-18D05E			+5	4000	-5	4000	
LD40-18D12E			+12	1667	-12	1667	
LD40-18D15E			+15	1333	-15	1333	
LD40-18D24E			+24	833	-24	833	
LD40-24S05E	24	18-36	5	8000			
LD40-24S12E			12	3330			
LD40-24S15E			15	2667			
LD40-24S24E			24	1667			
LD40-24D05E			+5	4000	-5	4000	
LD40-24D12E			+12	1667	-12	1667	
LD40-24D15E			+15	1333	-15	1333	
LD40-24D24E			+24	833	-24	833	
LD40-48S05E	48	36-75	5	8000			
LD40-48S12E			12	3330			
LD40-48S15E			15	2667			
LD40-48S24E			24	1667			
LD40-48D05E			+5	4000	-5	4000	

LD40-48D12E			+12	1667	-12	1667	
LD40-48D15E			+15	1333	-15	1333	
LD40-48D24E			+24	833	-24	833	
LD40-36S05E	36	18-75	5	8000			
LD40-36S12E			12	3330			
LD40-48S15E			15	2667			
LD40-48S24E			24	1667			
LD40-48D05E			+5	4000	-5	4000	
LD40-48D12E			+12	1667	-12	1667	
LD40-48D15E			+15	1333	-15	1333	
LD40-48D24E			+24	833	-24	833	
LD40-110S05E	110	40-160	5	8000			
LD40-110S12E			12	3330			
LD40-110S15E			15	2667			
LD40-110S24E			24	1667			
LD40-110D05E			+5	4000	-5	4000	
LD40-110D12E			+12	1667	-12	1667	
LD40-110D15E			+15	1333	-15	1333	
LD40-110D24E			+24	833	-24	833	

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
	18-75	36	75
	36-75	48	75
	40-160	110	160

Hot Plug

Unavailable

Output Specifications

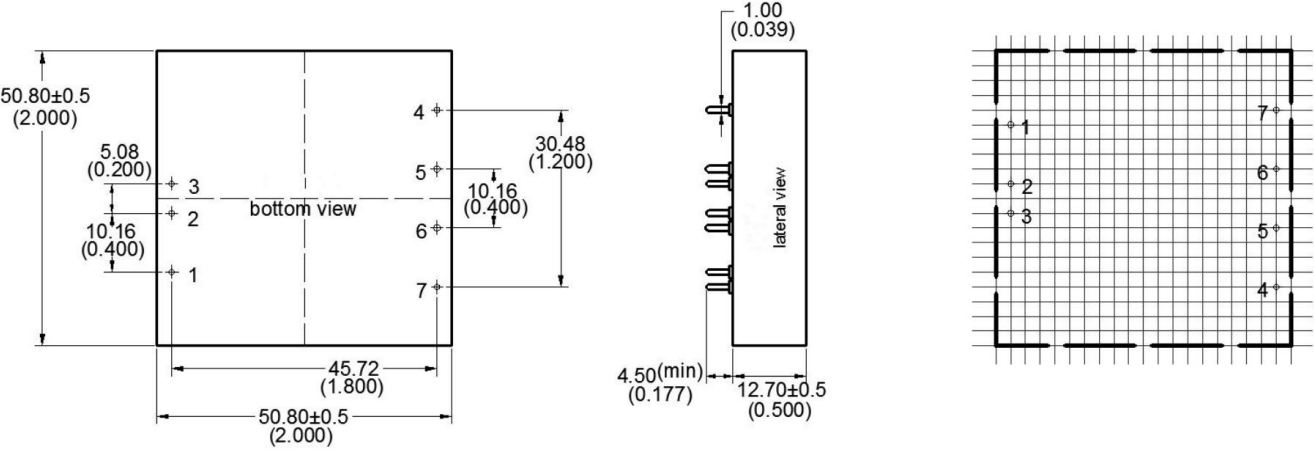
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo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

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

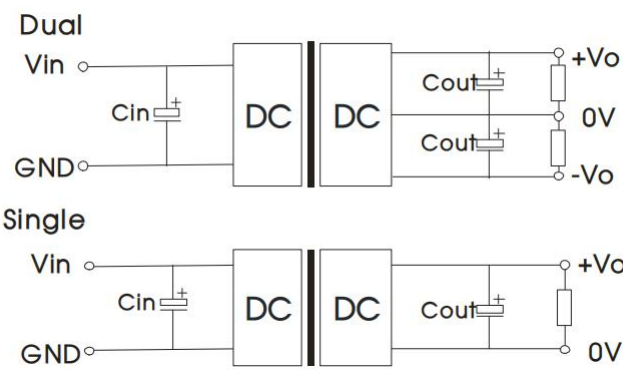
Dimensions and Recommended Layout



Unit:mm(inch)

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

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.