

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 ($\text{MTBF} \geq 2 \times 10^5 \text{Hrs}$)
- 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)	
LD30-12S05C	12	9-18	5	0	6000	86	2000
LD30-12S12C			12	0	2500	90	680
LD30-12S15C			15	0	2000	90	470
LD30-12S24C			24	0	1250	90	330
LD30-12D05C			+5	+3000	-15	3000	1000
LD30-12D12C			+12	+1250	-12	1250	330
LD30-12D15C			+15	+1000	-15	1000	220
LD30-12D24C			+24	+625	-24	625	150
LD30-18S05C	18	9-36	5	0	6000	86	2000
LD30-18S12C			12	0	2500	90	680
LD30-18S15C			15	0	2000	90	470
LD30-18S24C			24	0	1250	90	330
LD30-18D05C			+5	+3000	-15	3000	1000
LD30-18D12C			+12	+1250	-12	1250	330
LD30-18D15C			+15	+1000	-15	1000	220
LD30-18D24C			+24	+625	-24	625	150
LD30-24S05C	24	18-36	5	0	6000	86	2000
LD30-24S12C			12	0	2500	90	680
LD30-24S15C			15	0	2000	90	470
LD30-24S24C			24	0	1250	90	330
LD30-24D05C			+5	+3000	-15	3000	1000
LD30-24D12C			+12	+1250	-12	1250	330
LD30-24D15C			+15	+1000	-15	1000	220
LD30-24D24C			+24	+625	-24	625	150
LD30-36S05C			5	0	6000	86	2000
LD30-36S12C			12	0	2500	90	680
LD30-36S15C			15	0	2000	90	470
LD30-36S24C			24	0	1250	90	330

LD30-36D05C	36	18-75	+5	+3000	-15	3000	1000
LD30-36D12C			+12	+1250	-12	1250	330
LD30-36D15C			+15	+1000	-15	1000	220
LD30-36D24C			+24	+625	-24	625	150
LD30-48S05C	48	36-72	5	0	6000	86	2000
LD30-48S12C			12	0	2500	90	680
LD30-48S15C			15	0	2000	90	470
LD30-48S24C			24	0	1250	90	330
LD30-48D05C			+5	+3000	-15	3000	1000
LD30-48D12C			+12	+1250	-12	1250	330
LD30-48D15C			+15	+1000	-15	1000	220
LD30-48D24C			+24	+625	-24	625	150
LD30-110S05C	110	40-160	5	0	6000	86	2000
LD30-110S12C			12	0	2500	90	680
LD30-110S15C			15	0	2000	90	470
LD30-110S24C			24	0	1250	90	330
LD30-110D05C			+5	+3000	-15	3000	1000
LD30-110D12C			+12	+1250	-12	1250	330
LD30-110D15C			+15	+1000	-15	1000	220
LD30-110D24C			+24	+625	-24	625	150

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
	36-72	48	72
	40-160	110	160
Hot Plug	Unavailable		

Output Specifications

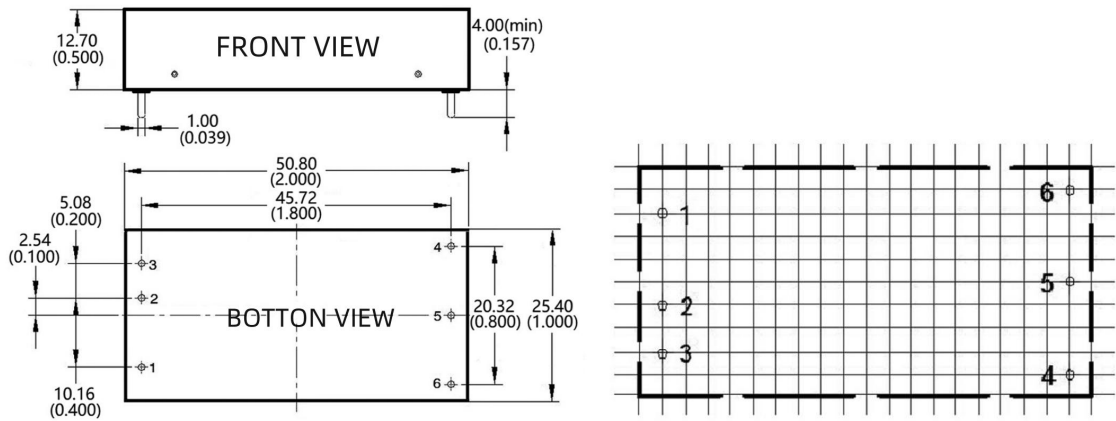
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo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

Gernal 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	28g (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

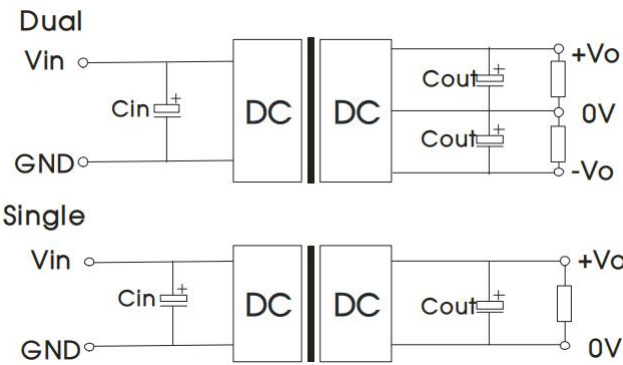


Unit:mm(inch)

Pins

Pin	Single	Dual	
Pin	Single	Dual	
1	CTRL	CTRL	
2	-Vin	-Vin	
3	+Vin	+Vin	
4	+Vo	+Vo	
5	-Vo	COM	
6	TRIM	-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.