

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)	
SLD100-12S05B	12	9-18	5	20000			
SLD100-12S12B			12	8333			
SLD100-12S15B			15	6667			
SLD100-12S24B			24	4167			
SLD100-18S05B	18	9-36	5	20000			
SLD100-18S12B			12	8333			
SLD100-18S15B			15	6667			
SLD100-18S24B			24	4167			
SLD100-24S05B	24	18-36	5	20000			
SLD100-24S12B			12	8333			
SLD100-24S15B			15	6667			
SLD100-24S24B			24	4167			
SLD100-24S56B			56	1786			
SLD100-48S05B	48	36-72	5	20000			
SLD100-48S12B			12	8333			
SLD100-48S15B			15	6667			
SLD100-48S24B			24	4167			
SLD100-36S05B	36	18-72	5	20000			
SLD100-36S12B			12	8333			
SLD100-48S15B			15	6667			
SLD100-48S24B			24	4167			
SLD100-110S05B	110	40-160	5	20000			
SLD100-110S12B			12	8333			
SLD100-110S15B			15	6667			
SLD100-110S24B			24	4167			

customized accepted pls contact sales for details

Input Specifications

	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
Input Voltage	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

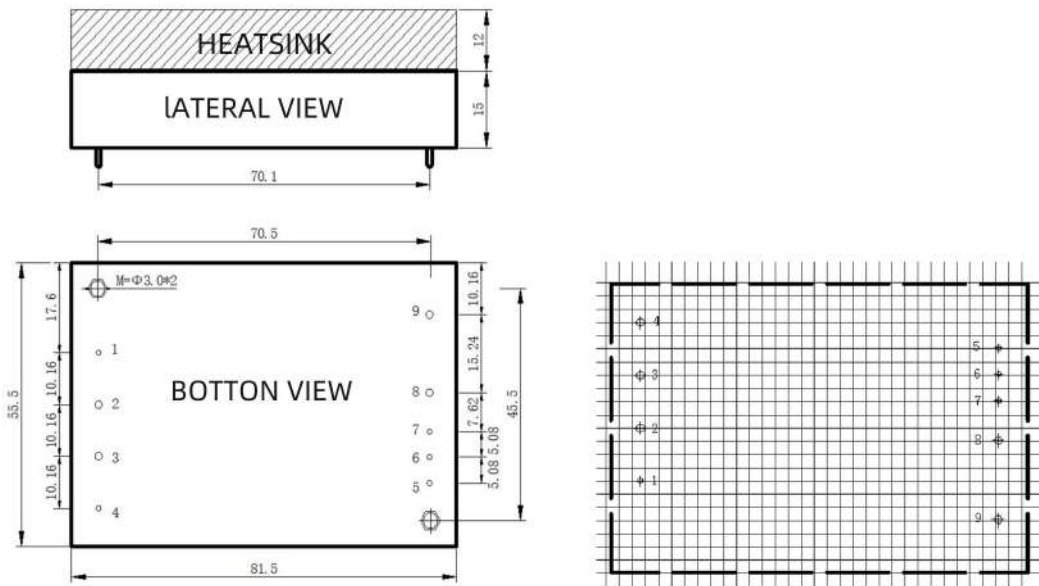
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo	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°C
Isolation (Input-Output)	1.5KVDC	
Operating Temperature	-40~+85°C	
Storage Temperature	-55~+125°C	
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°C room temperature environment.

Dimensions and Recommended Layout

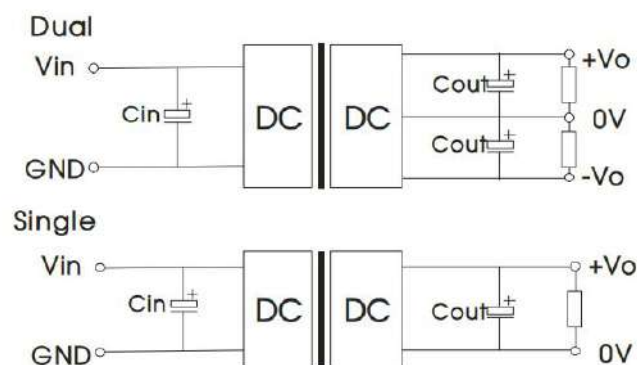


Unit:mm(inch)

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			

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.