

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+100°C
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Industry standard 1/2 brick package



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (A)	Voltage (V2dc)	current (A)	
LD300Q-24S12	24	20-36	12	25			
LD300Q-24S24			24	12.5			
LD300Q-24S28			28	10.7			
LD300Q-24S32			32	9.4			
LD300Q-36S12	36	18-75	12	25			
LD300Q-36S24			24	12.5			
LD300Q-36S28			28	10.7			
LD300Q-6600S24	600	350-900	24	12.5			

customized accepted, pls contact sales for details

Input Specifications

		Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
Input Voltage Range		20-36	24	36
		18-75	36	75
		350-900	600	900
Input Filter	Capacitive Filter			
Ctrl	NONE			
	NONE			
Hot Plug	Unavailable			
ON/OFF	ON	Ctrl pin -Vin or pulled low(0-1.2VDC)		
	OFF	Ctrl pin open or pulled high TTL (3.5-12VDC)		
		Input current when off:6mA(typ),10mA(max)		

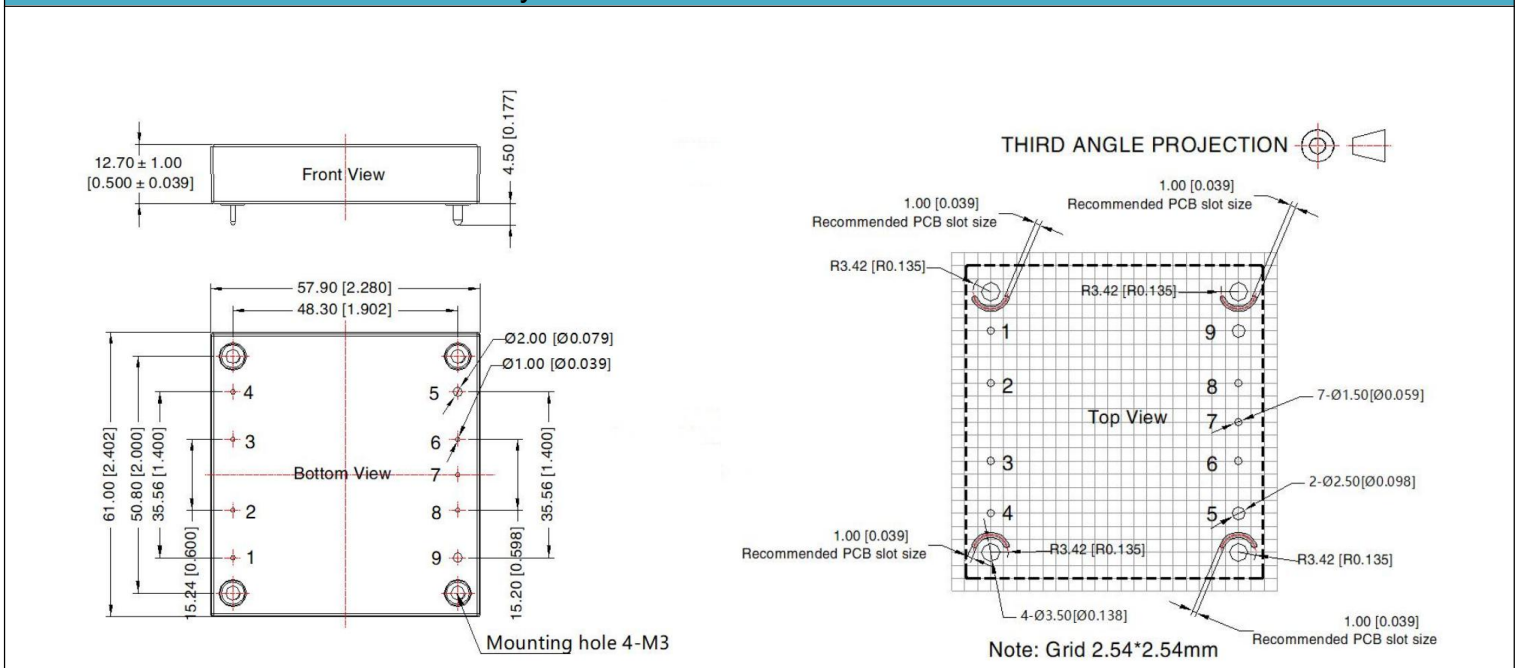
Output Specifications

Item	Min	Typ	Max	Test Conditions
Voltage Accuracy	-	±1%	±3%	
Line Regulation	-	±0.2%	±0.5%	
Load Regulation	-	±0.5%	±1%	
TRIM Range	60%	-	110%	
Temperature Regulation		±0.02%/°C		

Over Current Protect	110%Io	-	190%Io	
Over Voltage Protect	-	-	-	Hiccup
Over Temperature Protect	-	-	125%	
Short Circuit Protect	Continuous, self-recovery			
Dynamic Response	-	300uS(typ)	-	
General Specifications				
Isolation Resistor	1000MΩ	Input-Output		
Isolation Voltage	1500VDC	Input-Output		
	1000VDC	Input-Case		
	500VDC	Output-Case		
Switching Frequency	270KHz	Mil HDBK 217F Tc=25°C		
MTBF	1000K Hrs			
Case Temperature	-40~+100°C			
Storage Temperature	-55~+125°C			
Relative Humidity	10%-90%RH			
Pin Solder Temperature	300°C	Soldering spot is 1.5mm away from case for 10 seconds		
Weight	80g (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

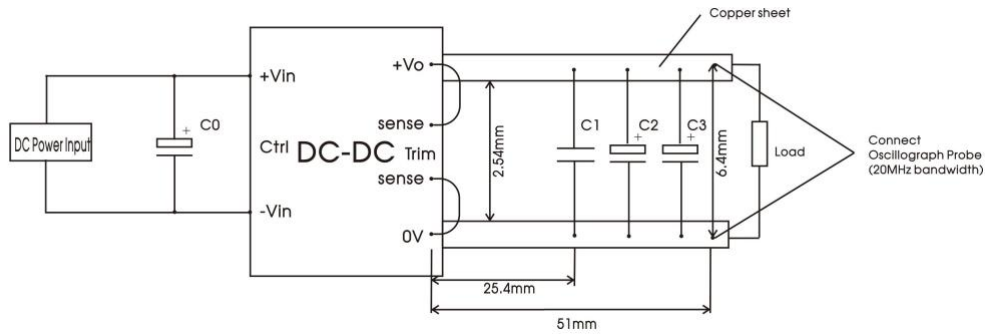


Note:
Unit: mm[inch]
Pin1,2,3,4,6,7,8's diameter: 1.00[0.039]
Pin5,9's diameter: 2.00[0.079]
Pin diameter tolerances: $\pm 0.10[\pm 0.004]$
General tolerances: $\pm 0.50[\pm 0.020]$
Mounting hole screwing torque: Max 0.4 N.m

Pins

Pin-Out	Mark		
1	+Vin	6	Sense-
2	CTRL	7	TRIM
3	NC	8	Sense+
4	-Vin	9	+Vo
5	0V		

Recommended Circuit



Output voltage (VDC)	Capacitor values			
	C0	C1	C2	C3
12	100 μ F/ 200V	1 μ F/25V	10 μ F/25V	330 μ F/25V
24		1 μ F/50V	10 μ F/50V	330 μ F/50V
28		1 μ F/50V	10 μ F/50V	330 μ F/50V
32		1 μ F/50V	10 μ F/50V	330 μ F/50V

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