

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 2250V
- Shell operating temperature: -40℃~+100℃
- 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				Note
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (A)	Voltage (V2dc)	current (A)	
					CTRL		
LD600Q-24S28	24	18-36	28	21.4	negative or positive		Negative, P/N with N
LD600Q-48S28	48	36-75	28	21.4	negative or positive		Negative, P/N with N

customized accepted, pls contact sales for details

Input Specifications

		Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
Input Voltage Range		18-36	24	36
		36-75	48	75
Input Filter		Capacitive Filter		
Ctrl		NONE		
		NONE		
Hot Plug		Unavailable		
CTRL Pin	ON	ON/OFF pin open or pulled high (TTL 3.5-12VDC)		
	OFF	ON/OFF pin pulled low to GND(0-1.2VDC)		
		Input current when off: 25mA(typ), 40mA(max)		

Output Specifications

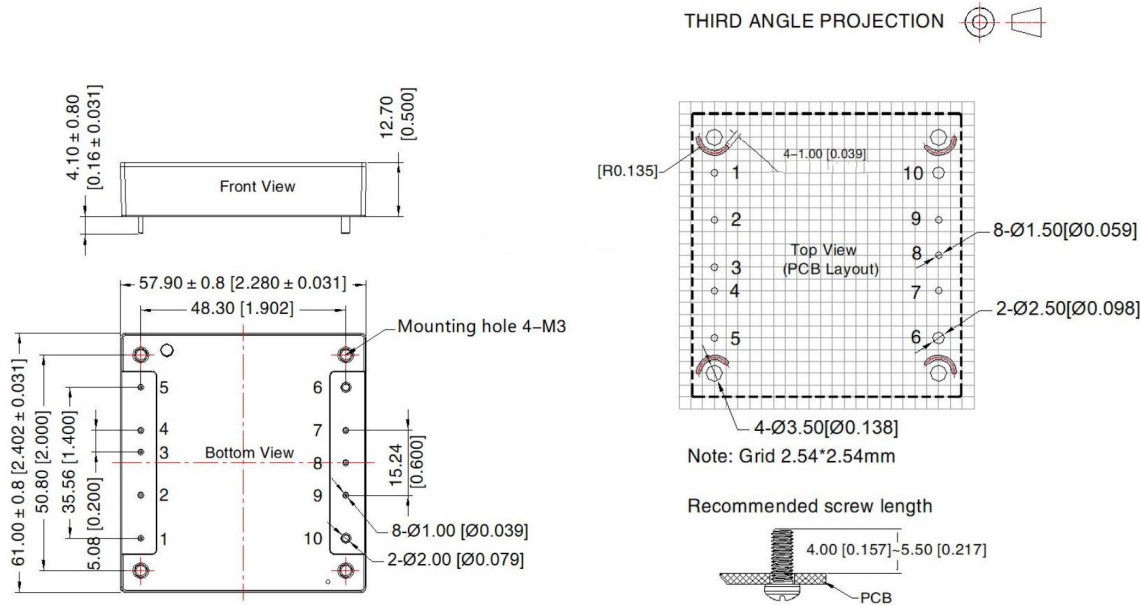
Item	Min	Typ	Max	Test Conditions
Voltage Accuracy	-	±1%	±3%	0% -100% load
Line Regulation	-	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	-	±0.25%	±0.75%	5% -100% load
TRIM Range	-	-	±10%	
Temperature Regulation	-	±0.03%/℃		
Over Current Protect	110%	-	160%	
Over Voltage Protect	110%	-	140%	
Over Temperature Protect	110%	115%	125%	
Short Circuit Protect	Continuous, self-recovery			
Dynamic Response		300uS(typ)		

General Specifications

Isolation Resistor	100MΩ	Input-Output
Isolation Voltage	2250VDC	Input-Output
	2250VDC	Input-Case
	500VDC	Output-Case
Switching Frequency	280KHz	Mil HDBK 217F Tc=25℃
MTBF	1000K Hrs	
Case Temperature	-40~+100℃	
Storage Temperature	-55~+125℃	
Relative Humidity	10%-90%RH	
Pin Solder Temperature	300℃	Soldering spot is 1.5mm away from case for 10 seconds
Hand Soldering Time	5s	Iron Temperature 425 ℃
Vibration		Sine, 10Hz-55Hz, amplitude 0.35mm, X, Y, Z three directions 30min each
Shock		Half-sine, peak acceleration is 300m/s², standard pulse duration is 6ms, X, Y, Z three 6 consecutive shocks in each direction;
Weight	125g (Typ)	

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

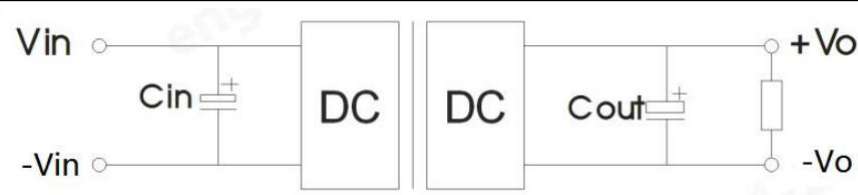
Dimensions and Recommended Layout



Note:
Unit: mm[inch]
Pin1, 2, 3, 4, 5, 7, 8, 9 diameter: 1.00[0.039]
Pin6, 10 diameter: 2.00[0.079]
Pin diameter tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.50[± 0.020]
Mounting hole screwing torque: Max 0.4 N · m

Pins			
Pin-Out	Mark		
1	+Vin	6	-Vo
2	ON/OFF	7	Sense-
3	Share(+)	8	Trim
4	Share(-)	9	Sense+
5	-Vin	10	+Vo

Recommended Circuit



Capacitance value	Cout(min.)	Cin
Output voltage		
12V/15V/24V/28V	470μF/35V	220 μF/63V

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