



Size: 2.28in x 2.4in x 0.50in (57.9mm x 61mm x 12.7mm)

FEATURES

- Soft Start
- 100% Burn In
- High Reliability
- Made in the USA
- Optional Heat Sink Available (Call Factory)

Rev H

• Up to 89% Efficiency

APPLICATIONS

- For Use in 12V and 24V Battery Applications
- For Use in Intermediate and Distributed Bus Architectures (IBA)
- Telecommunications Equipment
- Network (LANs/WANs) Equipment
- Next Generation Low Voltage, High Current Microprocessors and ICs

- Optional Encapsulation for Added Ruggedness
- Remote ON/OFF
- Cost Efficient Solution
- Fast Transient Response
- Fixed Switching Frequency
- Short Circuit and Over Current Protected
- Remote Sense Compensation to 10% Vout

DESCRIPTION

The LV series is a high density, low input voltage, isolated converter with a wide input voltage range. Low input voltage converters are uncommon in the industry and the LV series offers the flexibility of operation with both 12V and 24V busses, this state-of-the-art converter's features include fast transient response, short circuit protection, over current protection, soft start, and many other features that are required for today's demanding applications.

MODEL SELECTION TABLE							
Model Number	Model Number for Thru- Hole Inserts	Output Voltage	Output Current	Output Power	Input Voltage Range		
LV12S3.3-75	LV12S3.3-75TH	3.3V	21.4A	75W			
LV12S5-100	LV12S5-100TH	5V	20.0A	100W			
_V12S8-100	LV12S8-100TH	8V	12.5A	100W			
LV12S12-100	LV12S12-100TH	12V	8.3A	100W			
LV12S12-120	LV12S12-120TH	12V	10.0A	120W			
LV12S12-150	LV12S12-150TH	12V	12.5A	150W			
LV12S15-50	LV12S15-50TH	15V	3.3A	50W			
LV12S15-100	LV12S15-100TH	15V	6.6A	100W			
LV12S15-125	LV12S15-125TH	15V	8.3A	125W	12/24 VDC		
LV12S15-150	LV12S15-150TH	15V	10.0A	150W	(9-36) VDC		
LV12S18-150	LV12S18-150TH	18V	8.33A	150W			
LV12S20-100	LV12S20-100TH	20V	5.0A	100W			
LV12S24-50	LV12S24-50TH	24V	2.1A	50W			
LV12S24-150	LV12S24-150TH	24V	6.25A	150W			
LV12S26-150	LV12S26-150TH	26V	5.76A	150W			
LV12S28-150	LV12S28-150TH	28V	5.35A	150W			
LV12S28-200	LV12S28-200TH	28V	7.14A	200W	-		
LV12S48-150	LV12S48-150TH	48V	3.125A	150W	1		



		nerwise note	ed.				
	_	Typ	Max	Unit			
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	9		36	VDC			
			8.6	VDC			
	i		8.5	VDC			
	S	ee Technic					
		22		mA			
For 100ms			50	VDC			
	L		1				
		See Table					
		±1		%			
LL to HL at FL		±0.2		%			
20% to 100% Load		±0.2		%			
		10		%			
	'	See ⁻	Table				
	See Table						
		1.5		%			
50% Load Step				mS			
		200	1				
		Open/H	iah=ON				
		<u>v</u>					
	I						
ION uit Protection Continuous							
S	I						
-	-40		+100	°C			
	-50		+125	°C			
			95	%			
		±0.2		%/ºC			
	2.563.116			Hours			
			1				
			89	%			
		400		KHz			
Input to Output		1500		13112			
		500		VDC			
		500					
	10			MΩ			
			1				
		40	DZ				
Weight Dimensions (L x W x H)							
		-		nm)			
		Thick, Alun		····/			
	We reserve the right to change specifications based on tec TEST CONDITIONS For 100ms LL to HL at FL	We reserve the right to change specifications based on technological advances. TEST CONDITIONS Min 9 9 9 9 9 9 For 100ms 9 9 LL to HL at FL 9 9 20% to 100% Load 9 9 50% Load Step 10 10	We reserve the right to change specifications based on technological advances. TEST CONDITIONS Min Typ 9 9 22 9 For 100ms 22 For 100ms See Technic 20% to 100% Load 40.2 20% to 100% Load 10 See See 50% Load Step 250 See 0pen/Hi Low 20 0pen/Hi Low 0pen/Hi 110-' S 40 110-' 50 110-' 50 110-' 500 0 500 10 500 10 500 10 44 2.258in x 2-' 500	TEST CONDITIONS Min Typ Max 9 36 8.6 8.6 8.5 8.5 See Technical Datashee 22 For 100ms 50 LL to HL at FL ±1 20% to 100% Load ±0.2 20% to 100% Load 10 See Table ±1.5 50% Load Step 250 Open/High=ON Low=OFF Open/High=OFF Low=ON S -40 ±10.2 S -40 ±10.2 S -40 ±10.2 Input to Output 400 95 Input to Case 500 500			

NOTES

1. Logic Enable referenced to -Vin.

2. Pin to pin: ±0.01" [±0.3mm], pin diameter tolerance: ±0.005" [0.13mm].

3. Case material: 0.040" [1.02mm] thick, aluminum alloy 3003-0, per: QQA 250/2.

4. Unit comes with either 3M x 0.5 threaded thru inserts or for 0.125 thru-hole add "TH" suffix to model part number.

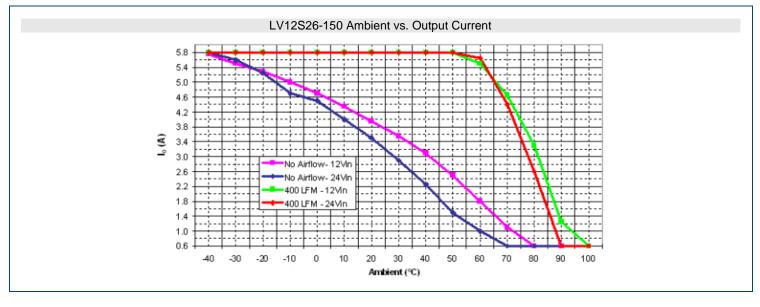
5. Consult factory for optional heat sink.

6. Active high enable is standard; for active low enable add the suffix "R" to the part number (Ex: LV12S15-100R)

*Due to advances in technology, specifications subject to change without notice.

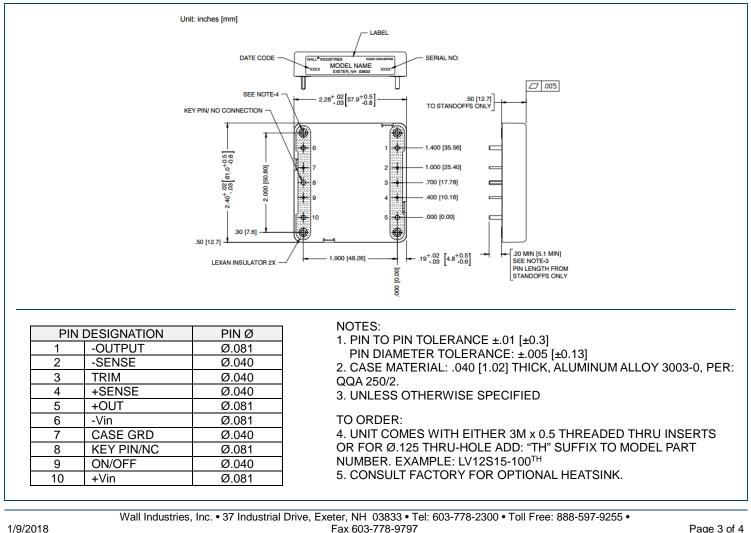


DERATING CURVES



Rev H

MECHANICAL DRAWINGS



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COMPANY INFORMATION -

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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