

Wall Industries, Inc.

ELANC SERIES

4:1 Input Voltage Ranges
Single and Dual Outputs
“Economy” Version of LANC Series
6 Watt DC/DC Power Converters



FEATURES

- 6 Watts
- Single and Dual Outputs
- 4:1 Wide Input Voltage Range
- Meets IEC/EN60950 and UL60950 Safety Standards
- RoHS Compliant
- High Efficiency up to 83%
- Industry Standard Footprint: 1.25" x 0.8" x 0.4"
- Low Output Ripple & Noise
- MTBF > 2,000,000 Hours
- Economy Version of the LANC Series

DESCRIPTION

The ELANC series of DC/DC power converters provides 6 watts of output power in an industry standard 1.25" x 0.80" x 0.40" package and footprint. This series has single and dual output models with 4:1 input voltage ranges of 9-36VDC and 18-75VDC. Some features include high efficiency, low ripple and noise, and an MTBF > 2,000,000 hours. All models are RoHS compliant and meet IEC/EN60950 and UL60950 safety standards. The ELANC series is the "Economy" version of the LANC series.

SPECIFICATIONS: ELANC SERIES						
<p>All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.</p>						
SPECIFICATION	TEST CONDITIONS		Min	Nom	Max	Unit
INPUT SPECIFICATIONS						
Input Voltage Range	12VDC nominal input models		9	12	36	VDC
	48VDC nominal input models		18	48	75	
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Line Regulation					0.5	%Vo
Load Regulation	Single Output Models				1.0	%Vo
	Dual Output Models				2.0	
Voltage Setpoint Accuracy			-3.0		+3.0	%Vo
Voltage Adjustment			none			
Output Current			See Table			
Output Power			See Table			
Ripple & Noise	Single Output Models		20MHz Bandwidth		60	mVp-p
	Dual Output Models				0.5	%Vo
Temperature Coefficient			-0.02		+0.02	%/°C
DYNAMIC RESPONSE						
Load Step / ΔV	Single Output Models		50%~75%~50% Io, di/dt=1A/10μS		200	mV
	Dual Output Models				5%	Vo
Recovery Time	Single Output Models				200	μS
	Dual Output Models				< 300	μS
ISOLATION VOLTAGE						
Input to Output	Single Output Models		For 1 minute		500	VDC
	Dual Output Models				1500	
Input to Case	Single Output Models		For 1 minute		500	VDC
	Dual Output Models				1500	
Output to Case	Single Output Models		For 1 minute		500	VDC
	Dual Output Models				1500	
GENERAL SPECIFICATIONS						
Efficiency			See Table			
ENVIRONMENTAL SPECIFICATIONS						
Operating Ambient Temperature Range			-40		+85	°C
Operating Board Temperature Range			-40		+100	°C
Storage Temperature Range			-55		+125	°C
MTBF			> 2,000,000 hours			
PHYSICAL SPECIFICATIONS						
Dimensions (L x W x H)			1.25 x 0.8 x 0.4 inches (31.80 x 20.30 x 10.16 mm)			
SAFETY						
Safety Approvals			IEC/EN60950, UL60950			

MODEL SELECTION TABLES

SINGLE OUTPUT MODELS

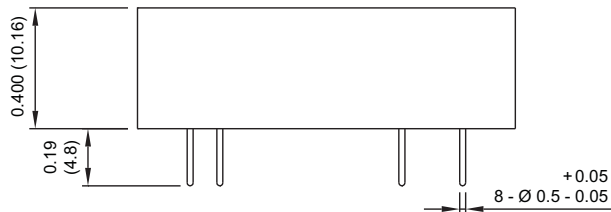
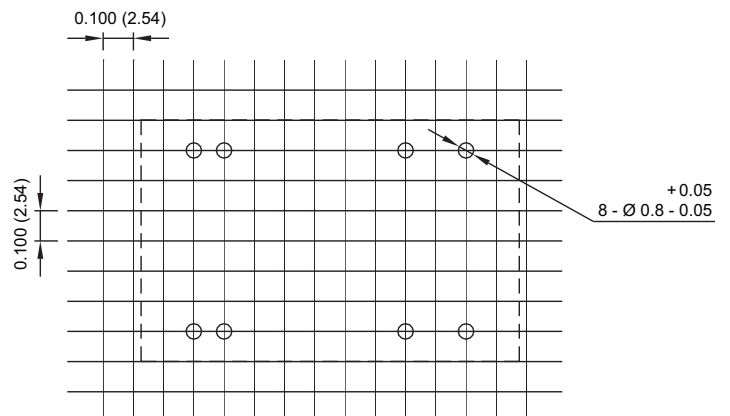
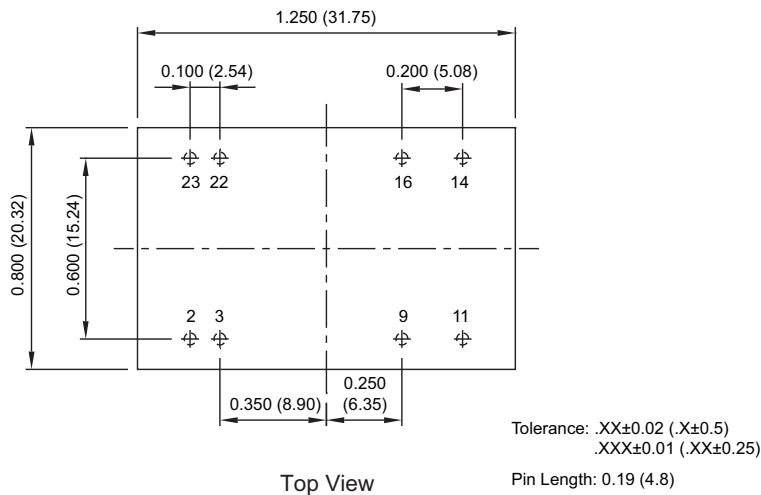
Model	Input Voltage	Output Voltage	Output Current	Output Power	Efficiency
ELANC1233UW6	12 VDC (9 – 36 VDC)	3.3 VDC	2 A	6.6W	78%
ELANC1205UW6		5 VDC	1.2 A	6W	80%
ELANC1212UW6		12 VDC	0.5 A	6W	82%
ELANC1215UW6		15 VDC	0.4 A	6W	82%
ELANC4833UW5	48 VDC (18 – 75 VDC)	3.3 VDC	1.5 A	5W	76%
ELANC4805UW6		5 VDC	1.2 A	6W	80%
ELANC4812UW6		12 VDC	0.5 A	6W	82%
ELANC4815UW6		15 VDC	0.4 A	6W	83%

DUAL OUTPUT MODELS

Model	Input Voltage	Output Voltage	Output Current	Output Power	Efficiency
ELANC1205DUW6	12 VDC (9 – 36 VDC)	±5 VDC	±0.6 A	6W	80%
ELANC1212DUW6		±12 VDC	±0.25 A	6W	82%
ELANC1215DUW6		±15 VDC	±0.2 A	6W	83%
ELANC4805DUW6	48 VDC (18 – 75 VDC)	±5 VDC	±0.6 A	6W	81%
ELANC4812DUW6		±12 VDC	±0.25 A	6W	82%
ELANC4815DUW6		±15 VDC	±0.2 A	6W	82%

MECHANICAL DRAWING

Unit: inches (mm)



PIN CONNECTIONS

Pin	Single	Dual
2	-Vin	-Vin
3	-Vin	-Vin
9	No Pin	COM
11	No Connect	-Vo
14	+Vo	+Vo
16	-Vo	COM
22	+Vin	+Vin
23	+Vin	+Vin



Wall Industries, Inc.

Rev. D

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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.

Contact **Wall Industries** for further information:

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