



Size: 1.25in x 0.80in x 0.40 (31.8mm x 20.3mm x 10.2mm)

FEATURES

- 2:1 Wide Input Voltage Range
- RoHS II & REACH Compliant
- Standard 24 Pin DIP Package and SMD Type Package
- CE Marked
- Short Circuit Protection
- 1600VDC I/O Isolation and 3000VDC Optional I/O Isolation
- MTBF 8, 066,000 Hours
- High Efficiency up to 80%
- IEC/UL/EN60950-1, 62368-1 Safety Approvals

APPLICATIONS

- Wireless Network
- Telecom/Datacom
- Industry Control System
- Distributed Power Architectures
- Semiconductor Equipment

DESCRIPTION

The LANK "H" series offers 3 watts of output power from a package in 24 pin DIP and SMT configurations without derating to 71°C ambient temperature. The LANK "H" Series has 2:1 wide input voltage of 4.5-6, 9-18, 18-36 and 36-75VDC; it also offers both single and dual outputs. This series features 1600VDC I/O isolation and 3000VDC optional isolation, as well as short circuit protection. Add suffix "I" for -40°C to +71°C ambient operation. All models are CE marked and has IEC/UL/EN60950-1 and 62368-1 safety approvals.

MODEL SELECTION TABLE									
Single Output Models									
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current Min. Load ⁽²⁾ Full Load		No Load Input Current	Output Power	Maximum Capacitive Load(3)	Efficiency	
LANK53.3W3H		3.3 VDC	60mA	600mA	20mA		2200uF	66%	
LANK505W3H	5 VDC	5 VDC	60mA	600mA	20mA	Up to 3W	1000uF	70%	
LANK512W3H	(4.5 – 6 VDC)	12 VDC	25mA	250mA	35mA	Op 10 344	170uF	76%	
LANK515W3H		15 VDC	20mA	200mA	35mA		110uF	75%	
LANK123.3W3H		3.3 VDC	60mA	600mA	10mA		2200uF	70%	
LANK1205W3H	12VDC (9 – 18 VDC)	5 VDC	60mA	600mA	10mA	Up to 3W	1000uF	75%	
LANK1212W3H		12 VDC	25mA	250mA	15mA	Op 10 344	170uF	79%	
LANK1215W3H		15 VDC	20mA	200mA	15mA		110uF	77%	
LANK243.3W3H		3.3 VDC	60mA	600mA	10mA		2200uF	71%	
LANK2405W3H	24 VDC	5 VDC	60mA	600mA	10mA	Up to 3W	1000uF	76%	
LANK2412W3H	(18 – 36 VDC)	12 VDC	25mA	250mA	10mA	Op to Svv	170uF	80%	
LANK2415W3H		15 VDC	20mA	200mA	10mA		110uF	80%	
LANK483.3W3H	48VDC (36 – 75 VDC)	3.3 VDC	60mA	600mA	5mA		2200uF	72%	
LANK4805W3H		5 VDC	60mA	600mA	5mA	Up to 3W	1000uF	75%	
LANK4812W3H		12 VDC	25mA	250mA	5mA	Op 10 344	170uF	79%	
LANK4815W3H		15 VDC	20mA	200mA	5mA		110uF	79%	

MODEL SELECTION TABLE										
	Dual Output Models									
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current Min. Load ⁽²⁾ Full Load		No Load Input Current	Output Power	Maximum Capacitive Load(3)	Efficiency		
LANK505DW3H	5 VDC	±5VDC	±30mA	±300mA	20mA		±500uF	74%		
LANK512DW3H	(4.5 – 6 VDC)	±12VDC	±12mA	±125mA	20mA	Up to 3W	±96uF	75%		
LANK515DW3H	(4.5 – 0 VDO)	±15VDC	±10mA	±100mA	55mA		±47uF	73%		
LANK1205DW3H	12VDC	±5VDC	±30mA	±300mA	15mA		±500uF	76%		
LANK1212DW3H	(9 – 18 VDC)	±12VDC	±12mA	±125mA	20mA	Up to 3W	±96uF	78%		
LANK1215DW3H	(9 - 10 VDC)	±15VDC	±10mA	±100mA	25mA		±47uF	79%		
LANK2405DW3H	24 VDC	±5VDC	±30mA	±300mA	10mA		±500uF	77%		
LANK2412DW3H	(18 – 36 VDC)	±12VDC	±12mA	±125mA	10mA	Up to 3W	±96uF	79%		
LANK2415DW3H	(10 – 30 VDC)	±15VDC	±10mA	±100mA	10mA		±47uF	79%		
LANK4805DW3H	48VDC (36 – 75 VDC)	±5VDC	±30mA	±300mA	5mA		±500uF	77%		
LANK4812DW3H		±12VDC	±12mA	±125mA	5mA	Up to 3W	±96uF	79%		
LANK4815DW3H	(30 - 73 VDC)	±15VDC	±10mA	±100mA	5mA		±47uF	79%		



SPECIFICATIONS								
	are based on 25°C, N	lominal Input V	oltage, and M	aximum Outpu	t Current unless o	otherwise note	ed.	
	We reserve the right	to change spec	ifications base	ed on technolog				11.2
SPECIFICATION INPUT SPECIFICATIONS		TEST COND	ITIONS		Min	Тур	Max	Unit
INPUT SPECIFICATIONS	5Vin (nom)				4.5	5	6	
_	12Vin (nom)		9	12	18			
Input Voltage Range	15Vin (nom)				18	24	36	VDC
	48Vin (nom)	36	48	75	1			
Input Reflected Ripple Current		Nominal Input and Full Load				120		mAp-p
			5Vin (nom)				18	
Input Surge Voltage	100mS, max.		12Vin (nom)				36	VDC
mpat cargo remage	1001112, 111411		15Vin (nom)				50	
Innut Ciltor			48Vin (nom))		Di Tura	100	
Input Filter OUTPUT SPECIFICATIONS						Рі Тур	<u>e</u>	
Output Voltage						See Tab	ole	
Voltage Accuracy					-1.0	000.00	+1.0	%
Line Regulation	Low Line to High L	ine at Full Load	i		-0.2		+0.2	%
			Single	3.3Vout	-0.3		+0.3	
Load Regulation	Min. Load to Full L	oad		Others	-0.2		+0.2	%
One as Demodetica	A	1.050/ /4.000/ EI	Dual		-2.0		+2.0	0/
Cross Regulation Output Power	Asymmetrical Load	1 25%/100% FL	. Dual		-5.0	See Tab	+5.0	%
Output Current						See Tab		
Maximum Capacitive Load						See Tab		
maximum oapasiiro 2000			3.3Vout., 5V	out		75		
Ripple & Noise	Measured by 20MI	∃z bandwidth	12Vout			120		mVp-p
			15Vout			150		
Transient Response Recovery Time	25% Load Step Ch					500		μs
Start-Up Time	Constant Resistive	Load	Power Up				30	ms
Temperature Coefficient PROTECTION					-0.02		+0.02	%/°C
Short Circuit Protection					Contin	nuous, Autom	atic Recove	n/
ENVIRONMENTAL SPECIFICATIONS					Conti	idods, Adtom	allo recove	ı y
	Without Derating				-25		+71	°C
Operating Ambient Temperature	"I" Suffix				-40		+71	_
Storage Temperature					-55		+125	°C
Relative Humidity					5		95	%RH
Thermal Shock Vibration						MIL-STD-8		
MTBF	MIL-HDBK-217F, F	Full Load			MIL-STD-810F 8.066 x 10 ⁶ hrs			
GENERAL SPECIFICATIONS	WIL-HODIC-Z171,1	uii Load				0.000 X 10	1113	
Efficiency						See Tab	ole	
Switching Frequency					100			kHz
Isolation Voltage	1 minute I	nput to Output			1600			VDC
			Suffix "H"		3000			
Isolation Resistance Isolation Capacitance	500VDC				1		300	GΩ pF
PHYSICAL SPECIFICATIONS							300	рг
	DIP Type					0.48oz (1	4a)	
Weight	SMD Type	0.52oz (15g)						
Dimensions (L. v.M. v.LI)	DIP Type	1.25in x 0.8in x 0.4in (31.8mm x 20.3mm x 10.2mm			x 10.2mm)			
Dimensions (L x W x H)	SMD Type				1.26in x 1in x			
Case Material						-Conductive E		
Base Material					Non-	-Conductive E		
Potting Material						Epoxy (UL9	4 V-0)	
SAFETY CHARACTERISTICS Safety Approvals		IE/	C/I II (4)/ ENEO	950-1, 62368-1			CR: I	JL (Demko)
EMI		IE	JIJE I LINOUS	EN55032			CD. (Class A
EMS	EN55024			2.100002				JIGGO A
ESD	EN61000-4-2	Air ± 8kV an	d Contact ± 6	kV			Pei	f. Criteria A
Radiated Immunity	EN61000-4-3 10 V/m				Perf. Criteria A			
Fast Transient ⁽⁵⁾	EN61000-4-4 ± 2kV				Perf. Criteria B			
Surge ⁽⁵⁾	EN61000-4-5	± 1kV					Pei	f. Criteria B
Conducted Immunity	EN61000-4-6	10 Vr.m.s					Pei	f. Criteria A
Power Frequency Magnetic Field	EN61000-4-8	100A/m con	tinuous; 1000	A/m 1 second			Pei	f. Criteria A



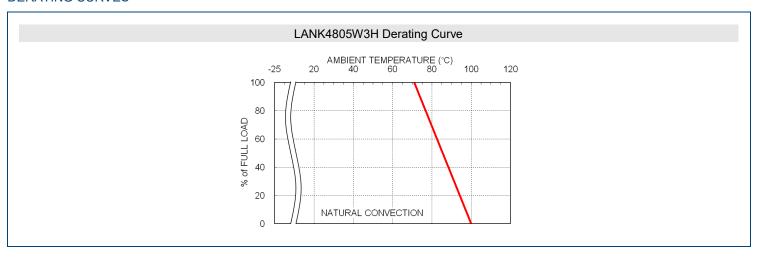
NOTES

- 1. Add "S" suffix for surface mount type. Add "I" for –40°C to +71°C operation.
- 2. The output requires a minimum loading on the output to maintain specified regulation. Operation under no-load condition will not damage these devices, however they may not meet all listed specifications.
- 3. Test by minimum input and constant resistive load.
- 4. This product is Listed to applicable standards and requirements by UL.
- An external input filter capacitor is required if the module has to meet EN61000-4-4, EN61000-4-5. Suggested filter capacitor: Nippon chemi-con KY series, 220µF/100V.

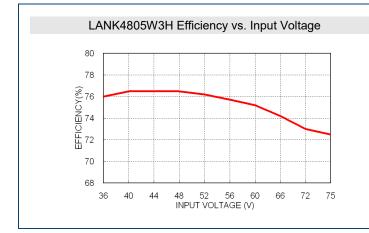
CAUTION: This power module is not internally fused. An input line fuse must always be used.

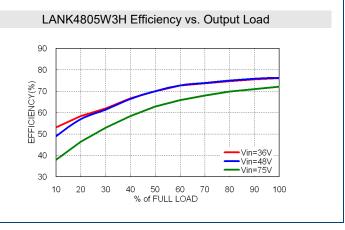
*Due to advances in technology, specifications subject to change without notice.

DERATING CURVES -



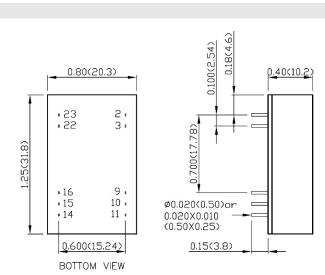
EFFICIENCY GRAPHS •







MECHANICAL DRAWINGS

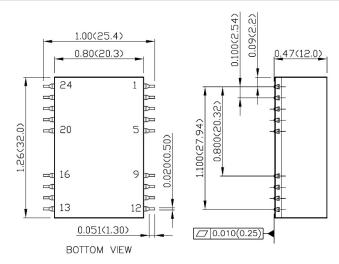


DIP Type

Pin Connection SINGLE PIN PIN DUAL SINGLE DUAL -Vin -Vin 23 +Vin +Vin -Vin -Vin 22 +Vin +Vin 9 NC Common 16 -Vout Common 10 NC NC 15 NC NC 11 NC -Vout +Vout +Vout

*NC: No Connection

SMD Type ("S" Suffix)



Pin Connection							
PIN	SINGLE	DUAL	PIN	SINGLE	DUAL		
2	-Vin	-Vin	23	+Vin	+Vin		
3	-Vin	-Vin	22	+Vin	+Vin		
9	NC	Common	16	-Vout	Common		
10	NC	NC	15	NC	NC		
11	NC	-Vout	14	+Vout	+Vout		
Others	NC	NC					

*NC: No Connection

- 1. All dimensions in inch (mm)
- 2. Tolerance :x.xx±0.02 (x.x±0.5)

x.xxx±0.01 (x.xx±0.25)

- 3. Pin pitch tolerance ±0.01 (0.25)
- 4. Pin dimension tolerance ±0.004(0.1)



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: 2015 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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