

2500LN series

12 to 25 watts



Key Features:

- **Lucent™ LW020 and LW025 compatible**
- **Unencapsulated construction**
- **Single & Dual Output Models**
- **Industry Standard 1" x 2" x 0.375" Footprint**

Ideally Suited For:

- **Telecom equipment**
- **Mixed analog/digital subsystems**
- **Distributed power networks**

Input Characteristics

Input Voltage Range:	36-75 VDC
Input Under Voltage Shutdown:	33V (36-75) VDC
Input Over Voltage Shutdown:	80V (48Vin)
Input Filtering:	Pi filter
Efficiency:	See Available Models Chart
No Load Input Current:	15mA

Output Characteristics

Output Voltage Accuracy:	+/-1%
Output Voltage Adjustment:	+/-10%
Total Error Band (Singles & Duals):	+/-2% Max. (Singles), +/-3% Max. (Duals)
Minimum Load Requirements:	0% (Singles), 10% (Duals & Triples)
Line Regulation:	+/-0.5% Low Line to High Line
Load Regulation (Singles & Duals):	+/-0.5% (Singles), +/-1.0% (Duals), Min Load to Full Load
Ripple and Noise:	50mV or 1% pk-pk, 20MHz Bandwidth
Transient Response/Recovery Time:	200µS, 25% Load Step
Temperature Coefficient:	+/-0.02% / °C
Short Circuit Protection:	Continuous (Hiccup Mode)
Over Voltage Protection:	Standard

Environmental Characteristics

Operating Temperature Range (Ambient):	-40°C to +85°C, See 2500LN Series Data Sheet for Derating curves.
Storage Temperature Range:	-55°C to +125°C
Maximum Case Temperature:	105°C Baseplate
Thermal Shutdown:	115°C Baseplate
Humidity:	Up to 95%, Non-condensing
Vibration:	5Grms, 5Hz to 2KHz
Reliability (MTBF per Mil-HDBK-217):	>1,200,000 hours, +25°C, Ground Benign
Demonstrated MTBF:	>5 million hours at +40°C

General Characteristics

Switching Frequency:	400KHz, Fixed
Isolation (Input to Output):	1500VDC minimum (1 minute)
Isolation Capacitance:	1200pF
Weight:	1.2oz (34g)
Case Material:	Aluminum baseplate with black anodized aluminum case
Agency Approvals:	UL, CSA, TUV and CE (LVD, 48 Vin Models)

Additional Features

Remote Shutdown (Positive logic standard)	
Supply On:	Open or >3.5 VDC
Supply Off:	<0.8 VDC
Optional Negative Logic enable	

Distributed By:
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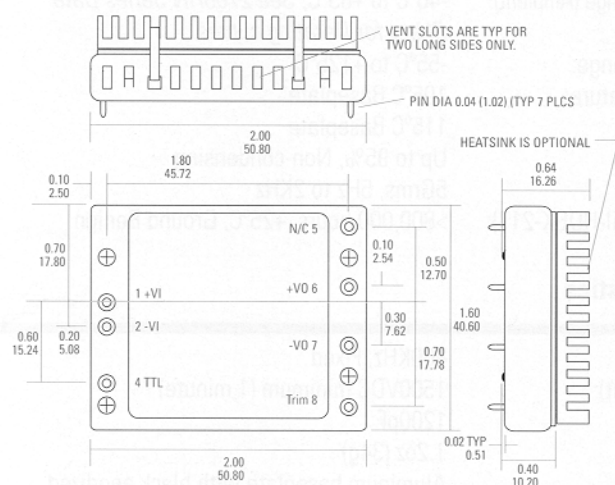
Available Models

Model	Nominal Input Voltage (VDC)	Input Voltage Range (VDC)	Output Voltage (VDC)	Max. Output Current (mA)	Efficiency @ Full-Load (%)
2502V0S48LN	48	36-75	2.0	6000	74
2502V5S48LN	48	36-75	2.5	6000	82
2503V3S48LN	48	36-75	3.3	6000	79
2505S48LN	48	36-75	5.0	5000	81
2512S48LN	48	36-75	12.0	2100	85
2515S48LN	48	36-75	15.0	1700	88
2505D48LN	48	36-75	+/-5.0	+/-3000*	83
2512D48LN	48	36-75	+/-12.0	+/-1000*	85
2515D48LN	48	36-75	+/-15.0	+/-800*	86

*Total output power not to exceed 25W

Outline Drawing

SINGLE & DUALS



Pinout Chart

Pin	Single	Duals
1	+Vin	+Vin
2	-Vin	-Vin
4	*REMOTE ON/OFF	*REMOTE ON/OFF
5	No pin	+Vout
6	+Vout	COMMON
7	-Vout	-Vout
8	Trim	Trim

* For Negative logic, Add "-1" suffix

For Positive logic, Add "-4" suffix

** Optional, for output trim, Add "-9" suffix

Shown with optional heatsink. To order add "-H" suffix to end of part number