

1500 LN series



www.martekpower.com

Dual Output DC/DC Converter



DESCRIPTIONS

The 1500LN, dual output power modules are 15 watt DC/DC converters available in a dual output configuration providing 5.0 VDC to 15 VDC outputs and are fully compatible to Tyco series LW010 and LW015 providing both positive and negative on/off logic. These 400kHz, switching converters are available in 48 VDC inputs with efficiencies up to 88%. Offering pin for pin and full functionality to the Tyco LW series these converters are the only true second source available in the market.

OUTPUT CHARACTERISTICS

	Min	Typ	Max	Unit/Comments
Output Voltage Set Point		±1		% Output voltage at nominal line & FL
Total Band Error	-3		+3	% Output voltage including line/load regulation setting
Temperature Coefficient		±0.01		% per degree C
Ripple/Noise		60	100	mV p-p measured at 20 MHz bandwidth with ext. 1 µf cap.
Output Voltage and Current				Refer to model selection chart
Load Transient Response		±2		deviation of output voltage for a 25% load change for 200µS
Short Circuit Protection				Indefinite, Automatic Recovery
Overvoltage Protection		260		%; Clamp type

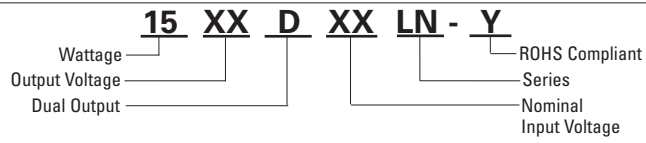
FEATURES

- Pin Compatible to Tyco LW010 and LW015
- Positive and Negative Logic
- Up to 88% Efficiency
- Industry Standard 1.0" X 2.0" X 0.375" Package
- Remote On/Off, Output Over Voltage and Short Circuit Protection

INPUT CHARACTERISTICS

	Min	Typ	Max	Units/Comments
Input Voltage	36	48	75	VDC
Under Voltage Lock out	33			VDC
Minimum Input Current	0			mA
Full Load Input Current			0.38	A
Input Fuse Requirements			1	Amps; Slow blow type
Efficiency by Model				
1505D48LN		84		%; FL Nominal Line
1512D48LN		87		%; FL Nominal Line
1515D48LN		88		%; FL Nominal Line
Switching Frequency	360	400	440	kHz; Factory set
Remote Shut Down (Optional)				
Positive Logic Off		0	0.80	VDC;Referenced to input
Positive Logic On		3.5		VDC or open;Referenced to input
Negative Logic On		0	0.80	VDC;Referenced to input
Negative Logic Off		3.5		VDC or open;Referenced to input
Input - Output Capacitance		1200		pF
Input Filter				LC type
Isolation Voltage		1500		VDC
Isolation Resistance		100		MOhms

HOW TO ORDER

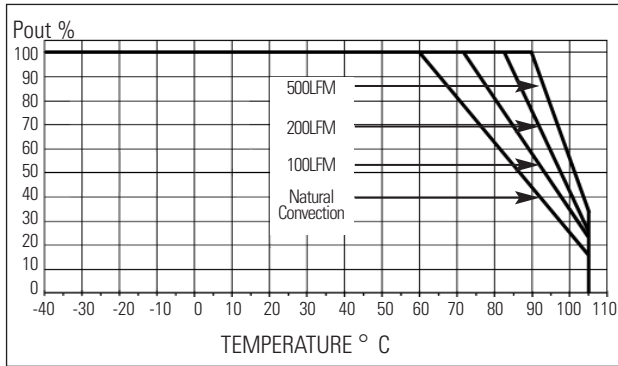


-4 Option, Positive Logic: To add the remote on/off feature to the converter please add a "-4" at the end of the part number. An additional pin (pin #6) will be added to the converter. Consult mechanical drawing for location.

-1 Option, Negative Logic: To add the remote on/off feature to the converter please add a "-1" at the end of the part number. An additional pin (pin #6) will be added to the converter. Consult mechanical drawing for location.

DERATING CURVES

MODEL 1500LN Dual Series $\pm 5V$



MODEL 1500LN Dual Series $\pm 12 & 15V$

