



15 WATT DUAL OUTPUT

Regulated, 2:1 Input Range

MEDICAL

DC/DC Converters



FEATURES

- **UL and CE Approved**
- **UL60601**
- **CAN/CSA C22.2 No. 601.1**
- **Double Insulation**
- **Wide Operating Temp. Range (-40 to +85° C)**
- **2500 Vdc Input/Output Isolation**
- **Efficiency: 83%**
- **Short Circuit and Over Voltage Protection**
- **6 Sided Continuous Metal Shielding**

Specifications

Typical @ 25°C Under Full Load and Nominal Input Voltage, Unless Otherwise Specified.

■ INPUT

Input Voltages 24Vdc.....18-36Vdc

■ OUTPUT

Minimum load (note 1)10% of full load
 Voltage Accuracy (Full load and nominal Vin)±1%
 Line Regulation (LL to HL at FL)±1%
 Load Regulation. 10% to 100% FL±2%
 Ripple and Noise (20MHz BW)75mVp-p
 Temperature Coefficient (at FL)±0.02%/°C, max
 Transient Response, 25% load step500uS

■ GENERAL

Efficiency83%
 Isolation Voltage2500Vdc, min.
 Isolation Resistance10⁹ Ohms, min.
 Switching Frequency500KHz, typ.
 Protection Overload% of FL at nominal
 Input150%, max.
 Short circuithiccup, automatic recovery

■ ENVIRONMENTAL

Operating Temperature Range-40 to +85° C (with derating)
 Storage Temperature Range-55 to +105° C
 CoolingFree Air Convection
 EMI/RFISix Sided Continuous Shield

■ PHYSICAL

Case MaterialNickel Coated Copper
 Weight27g (0.95 oz.)
 Dimensions2.00" x 1.00" x 0.40" (50.8 X 25.4 X 10.2 mm)

■ EMC CHARACTERISTICS

Conducted emissions	EN55022	Level A
Radiated emissions	EN55022	Level A
Conducted immunity	EN61000-4-6	Perf. Criteria2
Radiated immunity	EN61000-4-3	Perf. Criteria2
Surge	EN61000-4-5	Perf. Criteria2
Fast transient	EN61000-4-4	Perf. Criteria2
ESD	EN61000-4-2	Perf. Criteria2

"Manufacturer since 1969"

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Selection Guide

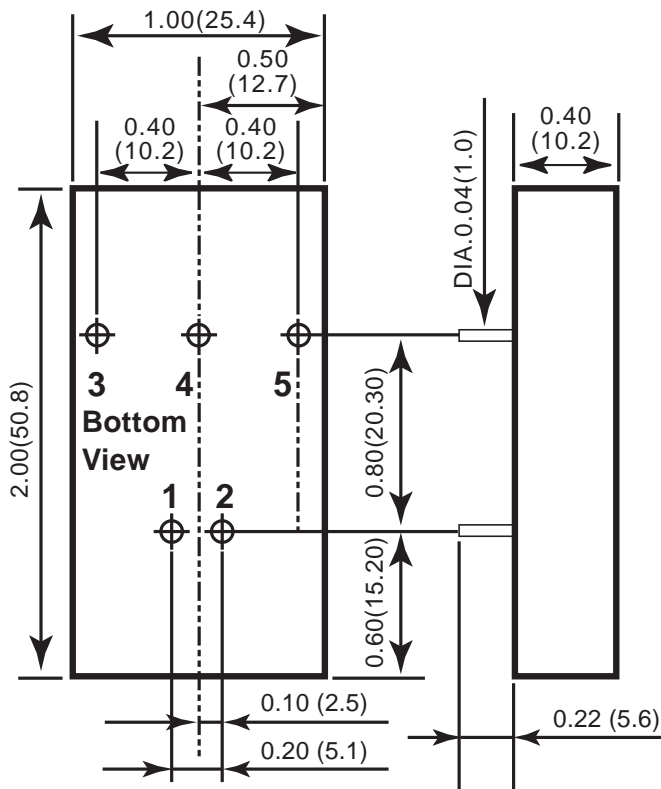
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Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Efficiency	Model Number	Case
12 (9-18)	±12	±625	83%	LWA15-24-12MHIA	P

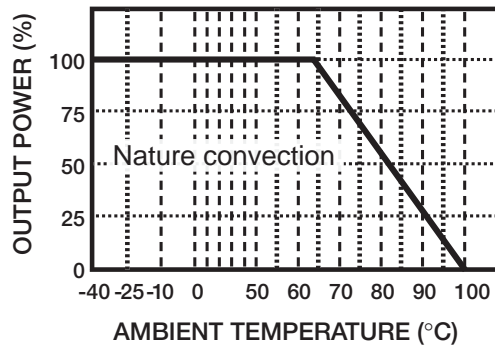
- Other output voltages and currents are available. Contact factory.

① There is a 10% Minimum load requirement on the output to maintain specified regulation. Operation under no-load condition will not damage these devices. However, they may not meet all of the listed specifications.

Mechanical Specifications



All dimensions in inches (mm)
Pin Pitch tolerance ±0.014 (0.35)



PIN CONNECTIONS	
PIN NO.	DUAL
1	+Vin
2	-Vin
3	+Vout
4	Common
5	-Vout



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