# 15Watts 3.3V & 5V Open Frame Dual Output



### Model No: NAD-32

## **Feature:**

- 90 to 264Vac universal input range.
- UL/CUL, TUV safety approval..
- EMI/RFI meet VDE & FCC limit B.
- Low cost & compact size.
- 15Watts in  $95\times60\times32$ mm Size.
- 2 Year Warranty.

#### **Specifications:** typical at nominal line, full load at 25 ° C.

Input Specifications:	General Specifications:		
Input voltage: 90 to 264Vac	Efficiency: 70% typical at full load		
Input Frequency: 47 Hz to 63Hz	<b>Hold-up time:</b> 15ms @ 115Vac full load		
<b>Input inrush current:</b> 20A at 115Vac	EMI/RFI: VDE & FCC Class B limits		
40A at 230Vac	Dielectric Withstand:		
Earth leakage: 0.2mA max @ 115Vac	Input/output: 3000Vac		
0.4mA max @ 230Vac	Input/Ground: 1500Vac		
Output Specifications:	<b>★Safety Approval:</b> UL/CUL UL60950		
Output Rating: Vo1: +5V/1A	TUV EN60950		
Vo2: +3.3V/3A			
Output Voltage Accuracy: ± 5% max.	Switching frequency: 30kHz(reference)		
Line Regulation: ± 1% max.	Weight: 150g		
<b>Load Regulation:</b> ± 5% max. (Full to half load)	<b>MTBF:</b> 100,000hours(MIL-HDBK-217F)		
<b>Transient Response:</b> ± 2% max.dev.	Environmental Specifications:		
(Full to half load) 500uS recovery	Operating temperature: 0 to +50°C		
<b>Temperature Coefficient:</b> $\pm 0.04\%$ / °C	Storage temperature: -20 to +85°C		
Ripple & Noise: 80mVp-p max.	<b>Humidity:</b> 5 to 95 % RH non-condensing		
<b>Protections:</b> a. Over voltage protection	<b>Vibration:</b> 2.4G , 5 to 500Hz		
b. Over power protection c. Short circuit protection	Cooling: Free air convection		

#### Note:

- 1. Vibration test: Three orthogonal axes, random vibration, 10 minutes for each axis.
- 2. Maximum output power is 15W.
- 3. At least 20% of load is required to obtain stable regulation.
- 4. Ripple & noise test method is measured at output terminal across a 0.1uF ceramic cap & a 10uF tantalum or electrolytic cap in parallel with a 20MHz bandwidth oscilloscope directly.
- ★ Please refer the safety approval status on appendix 1, For latest safety approval status Please consult YCL or visit" www.ycl.com.tw

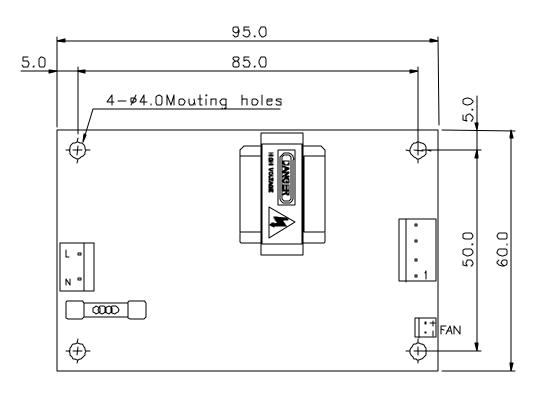
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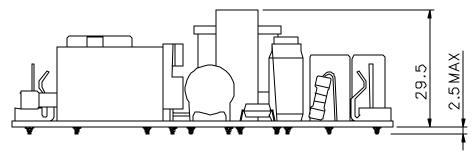




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**Dimensions:** mm  $\pm$  0.5mm





Pin	FUNCTION	Рiп	FUNCTION
1	+3.3V	3	COM
2	COM	4	+5V

- DC output mating connector is Molex 09-65-2048, Ever 8673-04 or equivalent.
- AC input mating connector is Molex 5096-02C ,Ever 8673-03N2 or equivalent.

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