

20Watts Dual Output Model No.: NAD-01



Feature:

- 90 to 264Vac universal input range.
- UL, CSA, TUV safety approval.
- EMI/RFI meet VDE & FCC limit B.
- Low cost & compact size.
- 20Watts in 110×60×29.1mm 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	Hold-up time: 15ms @ 115Vac full load
Input inrush current: 20A at 115Vac 40A at 230Vac	EMI/RFI: VDE & FCC Class B limits
Earth leakage: 0.2mA max @ 115Vac 0.4mA max @ 230Vac	Dielectric Withstand: Input/output: 3000Vac Input/Ground: 1500Vac
Output Specifications:	*Safety Approval: UL UL60950 CSA C22.2 NO.60950 TUV EN60950
Output Rating: Vo1: +5V/1A Vo2: +12V/1A	
Output Voltage Accuracy : ± 5% max.	
Line Regulation: ± 1% max.	Switching frequency: 50Khz(reference)
Load Regulation: ± 3% max. (Full to half load)	Weight: 130g(4.6Oz)
Transient Response: ± 1% max dev. (Full to half load) 500uS recovery	MTBF: 100,000hours(MIL-HDBK-217F)
Temperature Coefficient: ± 0.04% /°C	Environmental Specifications:
Ripple & Noise: 1% P-P max	Operating temperature: 0 to +50°C
Protections: a. Over voltage protection b. Over power protection c. Short circuit protection	Storage temperature: -20 to +85°C
	Humidity: 5 to 95 % RH non-condensing
	Vibration: 2.4G , 5 to 500Hz
	Cooling: Free air convection

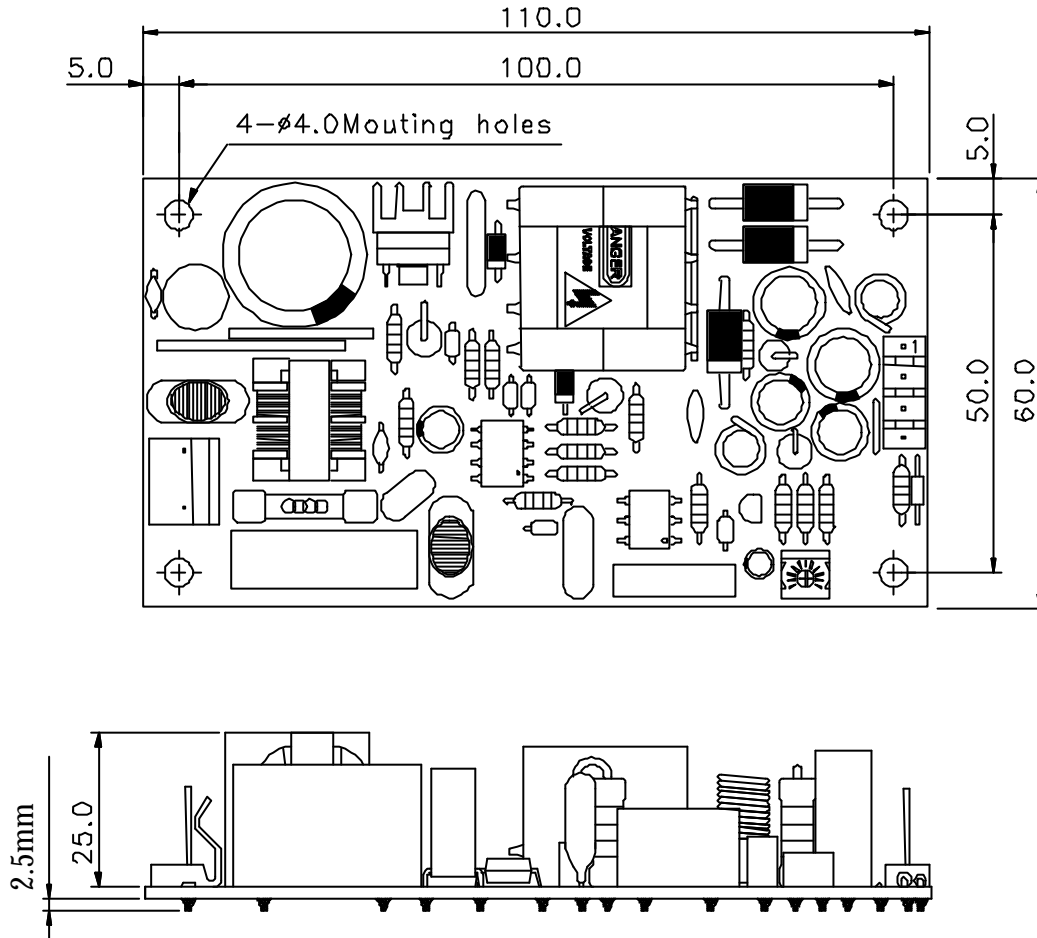
Note:

1. Vibration test: Three orthogonal axes, random vibration, 10 minutes for each axis.
 2. Maximum output power is 50W.
 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

20Watts Dual Output Model No.: NAD-01



Dimensions: mm± 0.5mm



Pin	FUNCTION	Pin	FUNCTION
1	+5V	3	COM
2	COM	4	+12V

- AC mating connector is : Molex 5096-02C or Ever 8673-03N2 or equivalent.
- DC mating connector is : Molex 09-67-4041 or Ever 8675-04 or equivalent.