

Model No.: NAD-20F

Feature:

- 90 to 264Vac universal input range.
- Approval UL, TUV, CB.
- EMI/RFI Meet VDE & FCC limit B.
- Low cost & compact size.
- 21.5 Watts in 102×51.8×31.6mm size.
- 2 year warranty.

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

Input Specifications:	General Specifications:
Input voltage: 90 to 264Vac	Efficiency: 65% typical at full load
Input Frequency: 47 Hz to 63Hz	Hold-up time: 10ms @ 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 TUV EN60950 CE/CB IEC950
Output Rating: Vo1: +5V/1A Vo2: 3.3V/5A	
Output Voltage Accuracy : ± 5% max.	
Line Regulation: ± 1% max.	Switching frequency: 30kHz(reference)
Load Regulation: 3.3V± 4% , 5V± 5% (Full to half load)	Weight: 140g
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: 50mVp-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:

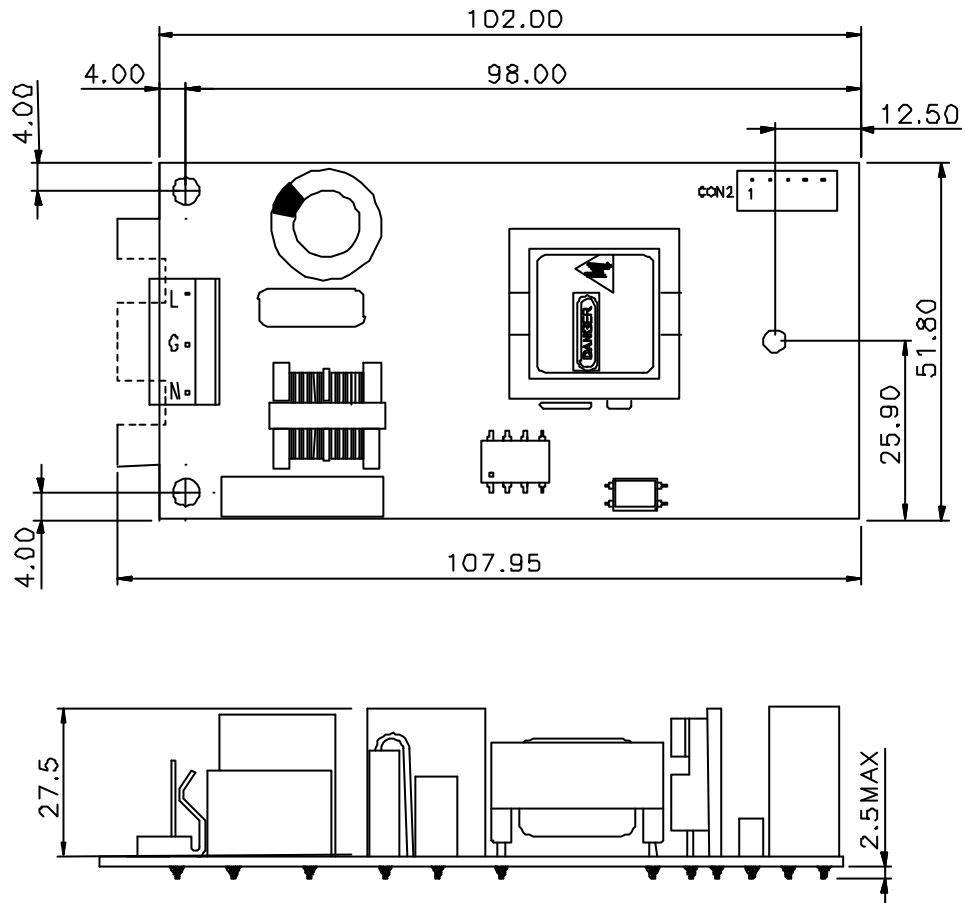
1. Vibration test: Three orthogonal axes, random vibration, 10 minutes for each axis.
 2. Maximum output power is 25W.
 3. At least 20% of load is required to obtain stable regulation.
 4. Ripple & noise test method is measured at output terminal across a 0.1uF ceramic cap & a 10uF tantalum or electrolytic 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"

25Watts 3.3V & 5V Open Frame Dual output



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Dimensions: mm \pm 0.5mm



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

- AC input mating connector is Molex 5096-03C or STM M24215 N2.4 or Ever 8673-05N2.4.
- DC output mating connector is Molex 67280-0500, Ever 2532-05K or STM M241855.