

20Watts Dual Output Power Supply

NAD-201X series



Feature:

- 90 to 264Vac universal input range.
- Meet UL/CUL, TUV.
- EMI/RFI meet VDE & FCC limit B.
- Low cost & compact size.
- 20Watts in 110×60×29mm 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 Meet: UL/CUL UL60950 TUV EN60950 |
| Output Rating: See selection table | |
| Output Voltage Accuracy : ± 5% max. | Switching frequency: 40Khz(reference) |
| Line Regulation: ± 1% max. | Weight: 150g(5.3Oz) |
| Load Regulation: ± 3% max. (Full to half load) | MTBF: 100,000hours(MIL-HDBK-217F) |
| Transient Response: ± 1% max dev. (Full to half load) 500uS recovery | Environmental Specifications: |
| Temperature Coefficient: ± 0.04% /°C | Operating temperature: 0 to +50°C |
| Ripple & Noise: 1% P-P max. | Storage temperature: -20 to +85°C |
| Protections: a. Over voltage protection b. Over power protection c. Short circuit protection | 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 20W.
 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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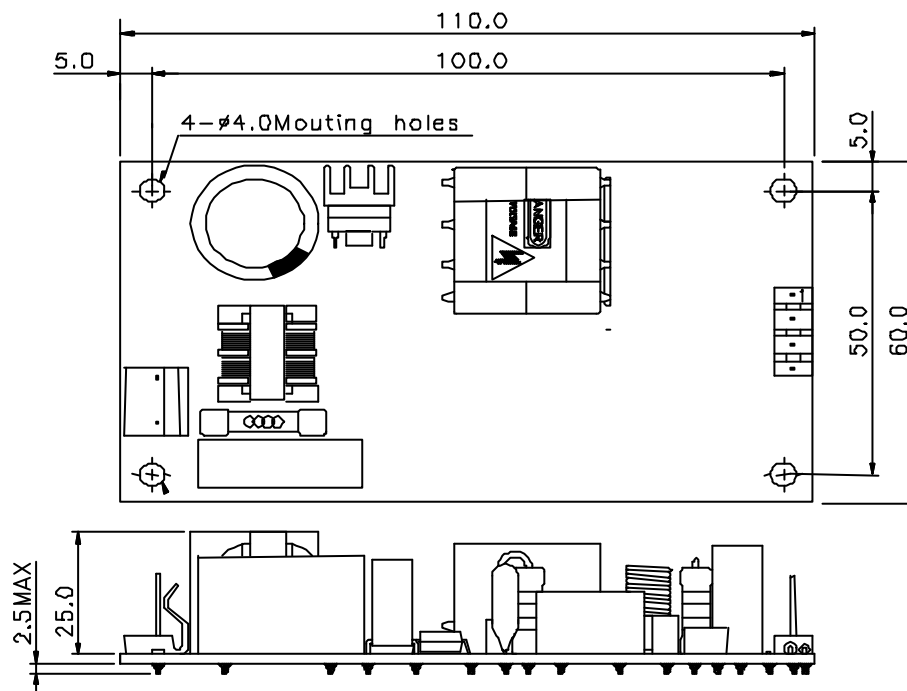
Model selection table:

| Model No. | Output Voltage Vo1/Vo2 | Output Current Typical | Max. Power |
|-----------|---------------------------|---------------------------|---------------|
| NAD-2011 | +5V/-5V | +2000mA/-2000mA | 20W |
| NAD-2012 | +5V/+12V | +2000mA/+800mA | 20W |

Note:

1. Other output voltage versions available. Please Consult factory for details.

Dimensions: mm \pm 0.5mm



| PIN | Function | PIN | Function |
|-----|----------|-----|----------|
| 1 | Vo1 | 3 | COM |
| 2 | COM | 4 | Vo2 |

- AC mating connector is : Molex 5096-02C, Ever 8673-03N2 or equivalent.
- DC mating connector is : Molex 09-65-4041, Ever 8675-04 or equivalent.