# **15Watts 3.3V & 5V Dual output Power Supply**

# **Model No.: NAD-20**

#### **Feature:**

- 90 to 264Vac universal input range.
- 3.3V & 5V dual outputs.
- UL, CSA, TUV safety approval.
- EMI/RFI meet VDE & FCC limit B.
- Low cost & compact size.
- Input with inlet socket.

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

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Input Specifications:	General Specifications:
Input voltage: 90 to 264Vac	Efficiency: 70% typical at full load
Input Frequency: 47 Hz to 440Hz	<b>Hold-up time:</b> 15ms @ 110Vac full load
Input inrush current: 10A at 115Vac	EMI/RFI: VDE & FCC Class B limits
20A at 230Vac	Dielectric Withstand:
Earth leakage: 0.2mA max @ 110VAC 0.4mA max @ 230VAC	Input/output: 4500Vdc Input/Ground: 2500Vdc
Output Specifications:	Safety Approval: UL UL1950
Output Rating: Vo1: +5V/0.5A V02: 3.3V/3A	CSA 22.2-234/950 TUV EN60950
<b>Line Regulation:</b> ±2% max	Switching frequency: 20kHz
<b>Load Regulation:</b> ±3% max.	<b>Weight:</b> 180g(5.3Oz)
<b>Transient Response:</b> ±% max.dev.	<b>MTBF:</b> 100,000hours(MIL-HDBK-217F)
(Full to half load) 500uSec recovery	Environmental Specifications:
<b>Temperature Coefficient:</b> ±0.02% /°C	<b>Operating temperature:</b> 0 to +50°C
<b>Ripple &amp; Noise:</b> 50mVp-p max	Storage temperature: -40 to +85°C
<b>Protections:</b> a. Over current protection	<b>Humidity:</b> 5 to 95 % RH non-condensing
b. Over voltage protection	<b>Vibration:</b> 2.4G , 5 to 500Hz
c. Over power protection d. Short circuit protection	Cooling: Free air convection

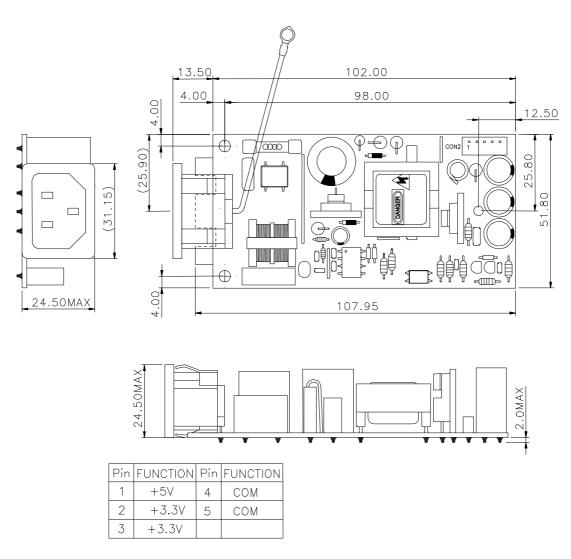
#### Note:

- 1. Vibration test: Three orthogonal axes, random vibration, 10 minutes for each axis.
- 2. Other output voltage versions available. Consult factory for details.
- 3. At least 20% of load is required to obtain stable regulation.

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**Dimensions:** mm<u>+</u>0.5mm



• DC output mating connector is JST p/n: XHP-5.