

# NLP70 Series

## Triple output

For the most current data and application support visit [www.artesyn.com/powergroup/products.htm](http://www.artesyn.com/powergroup/products.htm)

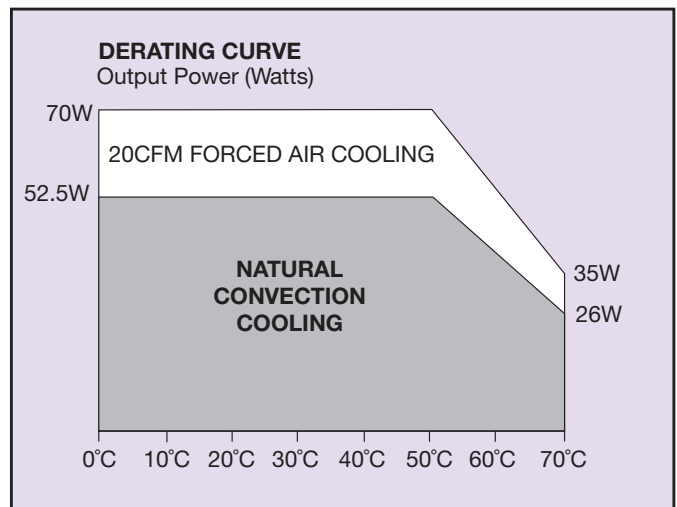
OUTPUT VOLTAGE	OUTPUT CURRENT			RIPPLE (4)	TOTAL REGULATION (6)	MODEL NUMBER (13,14)
	TYP. (1)	AIR (2)	PEAK (3)			
+5 V ( $I_A$ )	10.5 A	13 A	14 A	50 mV	±2.0%	NLP70-9693J
+3.3 V ( $I_B$ )	10.5 A	13 A	14 A	50 mV	±2.0%	
+12 V ( $I_C$ )	0.65 A	0.8 A	0.8 A	120 mV	±5.0%	

### Notes

- Free air convection cooling.  
 $I_B = 10.5$  A max.;  $I_{3,3} = 10.5$  A max.;  $I_{3,3} + I_B < 10.6$  A;  $P_o = 52.5$  W max.
- 20 CFM forced air.  
 $I_{3,3} = 13$  A max.;  $I_{5,5} = 13$  A max.;  $I_{3,3} + I_5 < 15$  A;  $P_o = 70$  W max.
- Peak output current lasting less than 60 seconds with duty cycle less than 5%. During peak loading, output voltage may exceed total regulation limits.
- Figure is peak-to-peak for convection power rating. Output noise measurements are made across a 20 MHz bandwidth using a 6 inch twisted pair, terminated with a 10  $\mu$ F electrolytic capacitor and a 0.1  $\mu$ F ceramic capacitor.
- Three orthogonal axes, random vibration 10 minutes for each axes, 2.4 G rms 5 Hz to 500 Hz.
- To maintain stated regulation then:  
 $I_{12} / I_A \leq 2$  and  $I_A \geq 0.1$  A.
- For optimum reliability, no part of the heatsink should exceed 120 °C, and no semiconductor case temperature should exceed 130 °C.
- CAUTION: Allow a minimum of 1 second after disconnecting line power when making thermal measurements.
- This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.
- Conducted and radiated emissions testing were performed using the standard EN55022 set-up with a stand alone NLP70-9693J unit placed on a grounded metal plate with a line choke on the AC input and ground wires (i.e. the wires are looped through an EMI suppression toroid). For system compliance it is usually necessary to install an 'off-the-shelf' ac inlet with an integral line filter in the system chassis or to install a line choke on the input wires as close as possible to ac entry point of the system chassis. Please contact the applications group at Artesyn for assistance with EMI compliance.
- All models require a minimum mounting stand-off of 0.25 inches (6.35 mm) in the end use product.
- 12 V is a floating output and can be referenced negative or positive.
- The 'J' suffix indicates that these parts are Pb-free (RoHS 6/6) compliant. TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special request, please contact your local sales representative for details.
- NOTICE: Some models do not support all options. Please contact your local Artesyn representative or use the on-line model number search tool at <http://www.artesyn.com/powergroup/products.htm> to find a suitable alternative.

INPUT PIN CONNECTIONS	
J1	
Pin 1	AC Line
Pin 2	No Pin
Pin 3	AC Neutral
J2	
Pin 1	Safety Ground

OUTPUT PIN CONNECTIONS	
J5	FUNCTION
Pin 1	3.3V
Pin 2	3.3V
Pin 3	Return
Pin 4	Return
Pin 5	Return
Pin 6	5V
Pin 7	5V
J3	FUNCTION
Pin 1	12V Return
Pin 2	12V (12)



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LOW TO MEDIUM POWER AC/DC POWER SUPPLIES | 70 W AC/DC Universal Input Switch Mode Power Supplies

3

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### Input and output connectors

**AC (J1) connector type**  
Molex 26-60-4030 type.

**DC (J3) connector type**  
Molex 26-60-4020 type.

**DC (J5) connector type**  
Molex 26-60-4070 type.

### Mating connectors

**AC (J1) mating connector type**  
Molex 09-50-3031 or equivalent with Molex 08-50-0105 or equivalent crimp terminals.

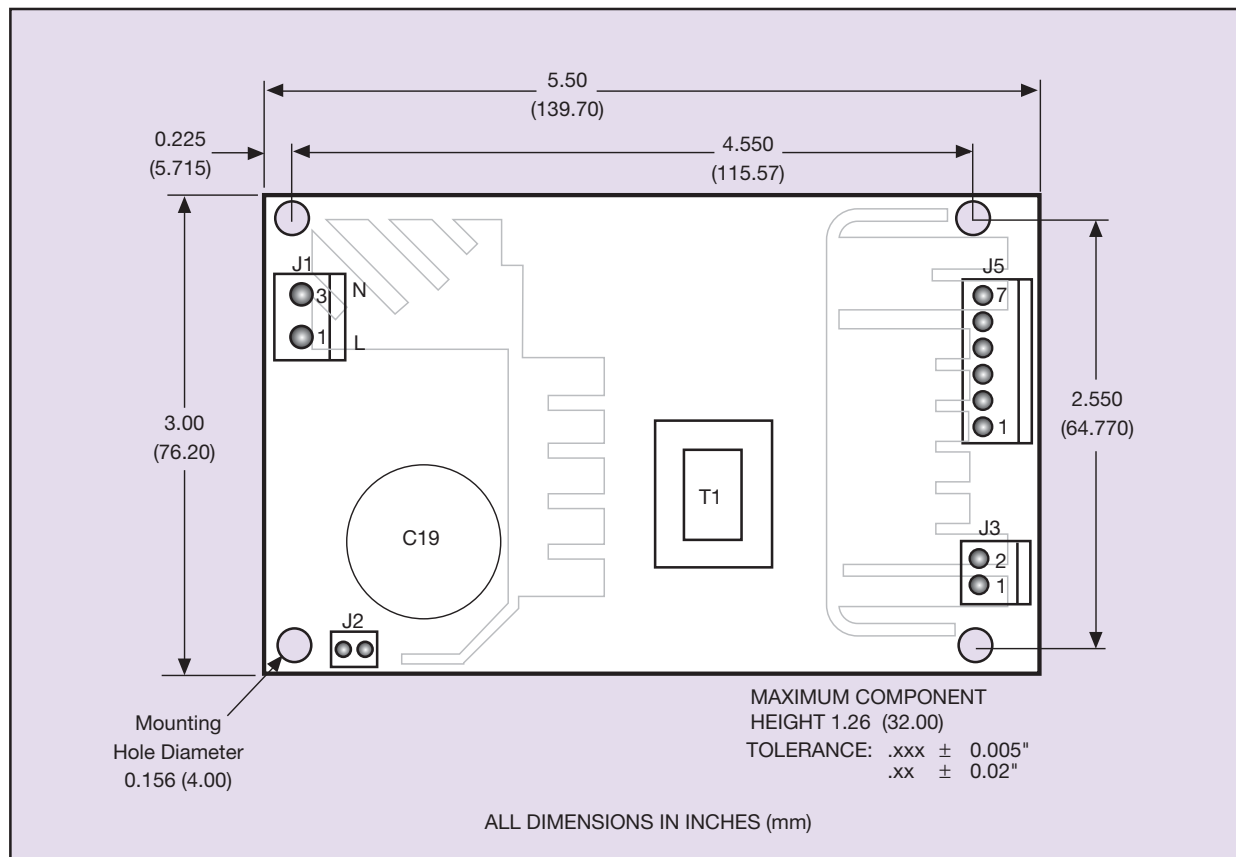
**DC (J3) mating connector type**  
Molex 09-50-3021 with Molex 2478 phosphor bronze crimp terminals or equivalent.

**DC (J5) mating connector type**  
Molex 09-50-3071 with Molex phosphor bronze crimp terminals or equivalent.

**Note:** The input and output connectors are the same as those used on NFS40, NAL40, NAN40, NLP40 and NLP65.

**Earth (J2) connector type**  
Male 0.250 quick disconnect type.

**Earth (J2) mating connector type**  
Molex 90028.



### International Safety Standard Approvals



VDE0805/EN60950/IEC950 File No. 10401-3336-0143  
Licence No. 117595



UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062

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