NLP70 Series

Triple output

For the most current data and application support visit 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 (12)	0.65 A	0.8 A	0.8 A	120 mV	±5.0%	

Notes

1 Free air convection cooling.
I_5 = 10.5 A max.; $I_{3.3}$ = 10.5 A max.; $I_{3.3} + I_5 < 10.6$ A; Po = 52.5 W max.

2 20 CFM forced air.
$I_{3.3}$ = 13 A max.; $I_{5.5}$ = 13 A max.; $I_{3.3} + I_5 < 15$ A; Po = 70 W max.

3 Peak output current lasting less than 60 seconds with duty cycle less than 5%. During peak loading, output voltage may exceed total regulation limits.

4 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 µF electrolytic capacitor and a 0.1 µF ceramic capacitor.

5 Three orthogonal axes, random vibration 10 minutes for each axes, 2.4 G rms 5 Hz to 500 Hz.

6 To maintain stated regulation then:
$I_{12} / I_{(A)} \leq 2$ and $I_{(A)} \geq 0.1$ A.

7 For optimum reliability, no part of the heatsink should exceed 120 ºC, and no semiconductor case temperature should exceed 130 ºC.

8 CAUTION: Allow a minimum of 1 second after disconnecting line power when making thermal measurements.

9 This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.

10 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.

11 All models require a minimum mounting stand-off of 0.25 inches (6.35 mm) in the end use product.

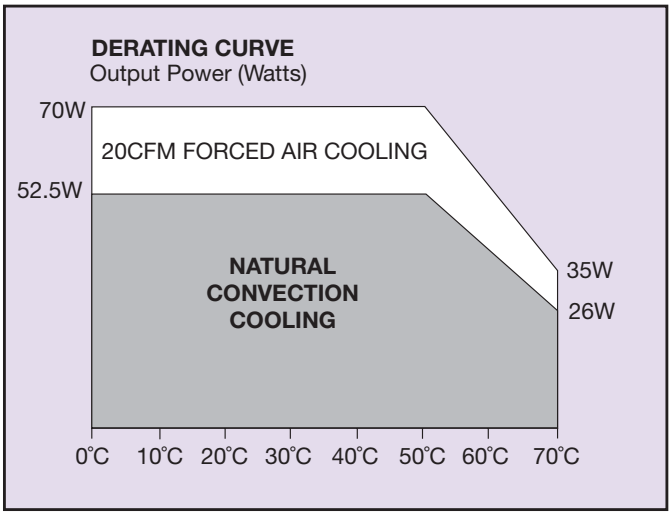
12 12 V is a floating output and can be referenced negative or positive.

13 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.

14 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

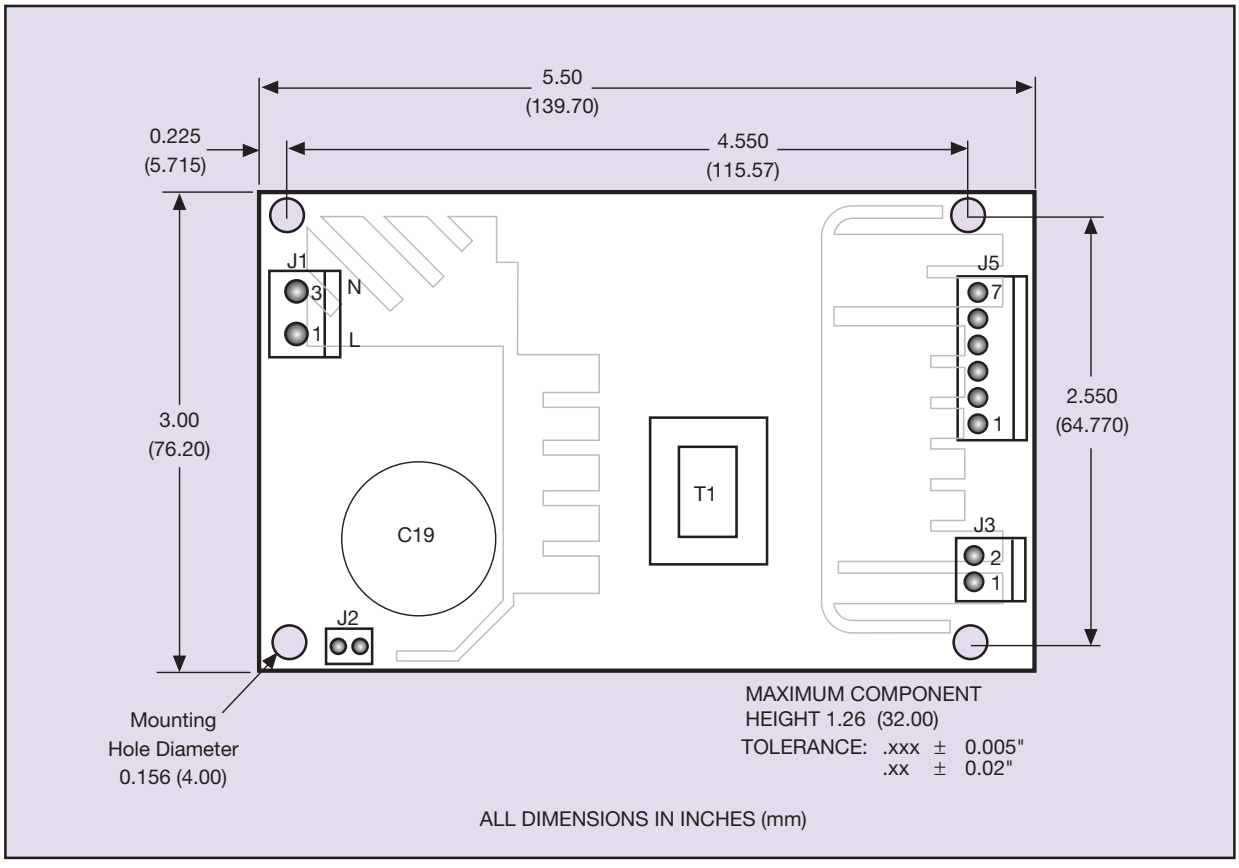
OUTPUT PIN CONNECTIONS	
J5	**FUNCTION**
Pin 1	3.3V
Pin 2	3.3V
Pin 3	Return
Pin 4	Return
Pin 5	Return
Pin 6	5V
Pin 7	5V
J3	**FUNCTION**
Pin 1	12V Return
Pin 2	12V (12)



Input and output connectors	Mating connectors
AC (J1) connector type Molex 26-60-4030 type.	**AC (J1) mating connector type** Molex 09-50-3031 or equivalent with Molex 08-50-0105 or equivalent crimp terminals.
DC (J3) connector type Molex 26-60-4020 type.	**DC (J3) mating connector type** Molex 09-50-3021 with Molex 2478 phosphor bronze crimp terminals or equivalent.
DC (J5) connector type Molex 26-60-4070 type.	**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