

NPS60-M Series

60 Watts

Data Sheet

Total Power: 60 Watts **Input Voltage:** 90 - 264 VAC 127 - 300 VDC

of Outputs: Single

SPECIAL FEATURES

- Medical and ITE Safety Approvals
- Universal input
- Less than 1U high
- 2" x 4" footprint
- Remote sense
- Overload and short circuit protection
- Adjustable output voltage
- High efficiency
- High MTBF
- Built in EMI filter (CISPR 22 Class B)
- International Efficiency Level V, Energy Star 2.0 & CeC compliant (except NPS62-M)
- Less than 300 mW no-load power consumption
- 0°C to +80°C operation
- Input power < 74 watts</p>
- Complies with EN61000-3-2
- UL Class I approved
- Class II approved (with Class A EMI)
- LPX50 enclosure kit available
- Dual AC fuses

SAFETY

TUV: 60950, 60601-1
UL: 60950, 60601-1
CSA: 60950, 60601-1
NEMKO: 60950, 60601-1

CB: Certificate and report

CE: Mark (LVD)CCC: Mark



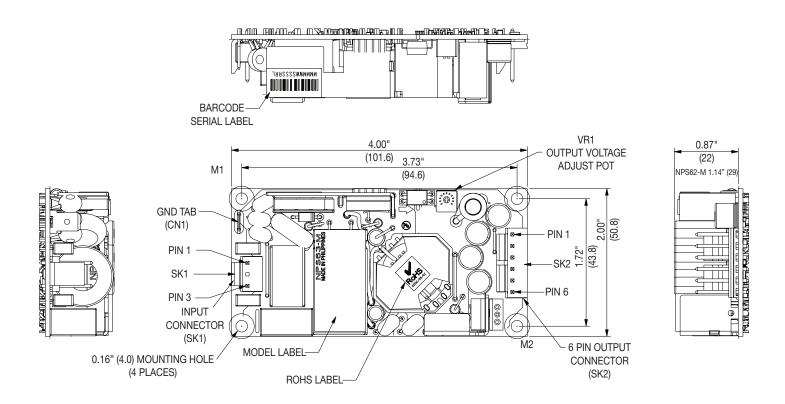


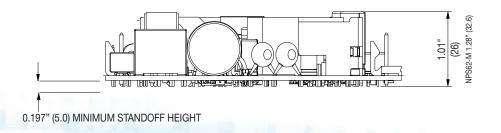
Electrical Specifications				
Input				
Input range:	90 - 264 VAC (wide range) 127-300 Vdc			
Frequency:	47 - 63 Hz			
Inrush current:	< 50 A peak @ 230 VAC, cold start @ 25° C			
Input power:	< 74 Watts			
Efficiency:	87% average (as per Energy Star 2.0 standard) (NPS62-M, 80%)			
EMI/RFI:	FCC Class B conducted; CISPR 22 Class B conducted; EN55022 Class B conducted, VDE0878PT3 Class B conducted			
Safety ground leakage current:	275uA @ 50/60 Hz; 264 VAC input			
Output				
Maximum power:	60 W for convection			
Adjustment range:	± 20% minimum			
Hold-up time:	13/75 ms 115/230 VAC input line			
Overload protection:	Short circuit protection on all outputs. Case overload protected @ 110-160% of normal rating			
Overvoltage protection:	30-50% above nominal output			
Remote sense:	Compensated for 0.5 V lead drop max. Will operate without remote sense connected. Reverse connection protected.			



Environmental Specifications				
Operating temperature:	0° to 50 °C ambient derate each output at 2.5% per degree from 50° to 80 °C20 °C start up			
Storage temperature:	-45 °C to +85 °C			
Electromagnetic susceptibility:	y: Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3			
Humidity:	Operating; non-condensing 10% to 90% RH			
Vibration:	IEC68-2-6 to the levels of IEC721-3-2			
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions			

Mechanical Drawing





Ordering Information						
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
NPS62-M	5 V	0 A	11 A	13 A	± 2%	50 mV
NPS63-M	12 V	0 A	5 A	5.5 A	± 2%	120 mV
NPS64-M	15 V	0 A	4 A	4.4 A	± 2%	150 mV
NPS65-M	24 V	0 A	2.5 A	2.75 A	± 2%	240 mV

- 1. Peak current lasting < 15 seconds with a maximum 10% duty cycle.
- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.

Pin Assignments				
Connector	NPS62-M	NPS63-M	NPS65-M	
SK1-1	Line	Line	Line	
SK1-3	Neutral	Neutral	Neutral	
CN1	Ground	Ground	Ground	
SK2-1	+5 V	+12 V	+24 V	
SK2-2	+5 V	+12 V	+24 V	
SK2-3	Common	Common	Common	
SK2-4	Common	Common	Common	
SK2-5	-Sense	-Sense	-Sense	
SK2-6	+Sense	+Sense	+Sense	

Mating Connectors		
AC Input:	Molex 09-50-8031 (USA) 09-93-0300 (UK) PINS: 08-52-0113	
DC Outputs :	Molex 09-50-8061 (USA) 09-93-0600 (UK) PINS: 08-52-0113	
Artesyn Embedded Technologies Connector Kit #70-841-006, includes all of the above		

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm)
- 3. Mounting holes M1 and M2 should be grounded for EMI purposes.
- 4. Mounting hole M1 is safety ground connection.
- 5. Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.
- 6. For DC input an external DC safety rated fuse must be used
- 7. Warranty: 2 year
- 8. Weight: 0.26lbs/0.118kg

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way Tempe, AZ 85282 USA +1 888 412 7832

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong +852 2176 3333



www.artesyn.com

For more information: www.artesyn.com/power For support: productsupport.ep@artesyn.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Switching Power Supplies category:

Click to view products by Artesyn Embedded Technologies manufacturer:

Other Similar products are found below:

70841011 73-551-0005 73-551-0048 PS3E-B12F PS3E-E12F AAD600S-4-OP R22095 KD0204 9021 LDIN100150 LPM000-BBAR-01 LPX17S-C EVS57-10R6/R FP80 FRV7000G 22929 PS3E-F12F CQM1IA121 40370121900 VI-PU22-EXX 40370121910 LDIN5075 LPM615-CHAS LPX140-C 09-160CFG 70841025 VPX3000-CBL-DC VI-LUL-IU LPM000-BBAR-05 LPM000-BBAR-08 LPM124-OUTA1-48 LPM000-BBAR-07 LPM109-OUTA1-10 LPM616-CHAS 08-30466-1055G 08-30466-2175G 08-30466-2125G DMB-EWG TVQF-1219-18S 6504-226-2101 CQM1IPS01 SP-300-5 CQM1-IPS02 VI-MUL-ES 22829 08-30466-0065G VI-RU031-EWWX 08-30466-0028G EP3000AC48INZ VP-C2104853