

High Reliability 15 to 90W Linear Power Supplies



- ◆ Single and Dual Outputs
- ◆ Excellent Line & Load Regulation
- ◆ Remote Programming and Current Share (NNS)
- ◆ Front Panel Voltage Taps
- ◆ Thermal Protection
- ◆ Five Year Warranty

RoHS

Key Market Segments & Applications

Test and Measurement
Low noise applications
Industrial

NN Features and Benefits

Feature	Benefit
◆ Five Year Warranty	◆ Lower Cost of Ownership
◆ Low Output Ripple	◆ Reduced system interference
◆ Fully Featured	◆ Greater System Flexibility
◆ Operation from -20 to +71C Ambient	◆ Easier system integration

Specifications

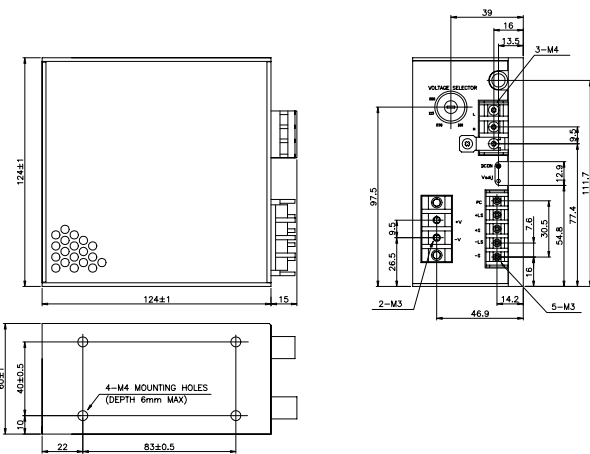
MODELS		NNS15	NNS30	NNS50	NND15	NND30
ITEMS						
AC Input	VAC	85~115, 98~132, 170~230, 195~265VAC (Front panel selectable)				
Input Frequency	Hz	47~440Hz				
EMI	-	FCC Class B, VDE0871 Level B				
Output Adjustment	-	±10%				
Remote Sense	-	Yes	Yes	Yes		None
Remote Programming	-		1000 Ohm/Volt			None
Parallel Operation	-		Via PC Terminal			None
Output Indicator	-			LED = On		
Line Regulation	%			0.01%		
Load Regulation	%			0.03%		
Cross Regulation	%		Not applicable			0.03%
Ripple and Noise	mV		1mV rms, 3mV peak to peak			
Overcurrent Protection	%		105 to 130%			
Overvoltage Protection	VDC	5V: 6 ~ 7.2V, 12V: 14.5 ~ 17.2V, 15V: 18.1 ~ 21.5V, 24V: 29 ~ 34.3V				
Cooling	-		Convection			
Operating Temp. Range	°C	-20°C: 60%, 0 to 50°C: 100%, 60°C: 60%, 71°C: 40%				
Storage Temperature	°C		-40 to +85°C			
Temperature coefficient	%		±0.02% per °C			
Humidity (non condensing)	%RH	Operating: 20 - 95% RH, Non operating: 10 - 95% RH				
Vibration	-	10-55Hz Amplitude (sweep for 1 min), <2G X, Y, Z 1 hour each				
Shock (in package)	-		<20G			
Safety Agency Approval	-		UL60950-1, CSA60950-1, EN60950-1, CE Mark			
Withstand Voltage	-	Input to Output: 3.75kVAC, Input to Chassis: 2.5kVAC for 1 minute				
Isolation Resistance	-	>100M at 500VDC @ 25C & 70%RH for 1 minute				
Weight	g	1750	2930	4200	1750	2750
Size WxHxD	mm	60x124x124	80x124x178	97x113x200	60x113.5x150	80x113.5x164
Warranty	y	Five years				

Note: See Installation Manual for full details, test methods of parameters and application notes

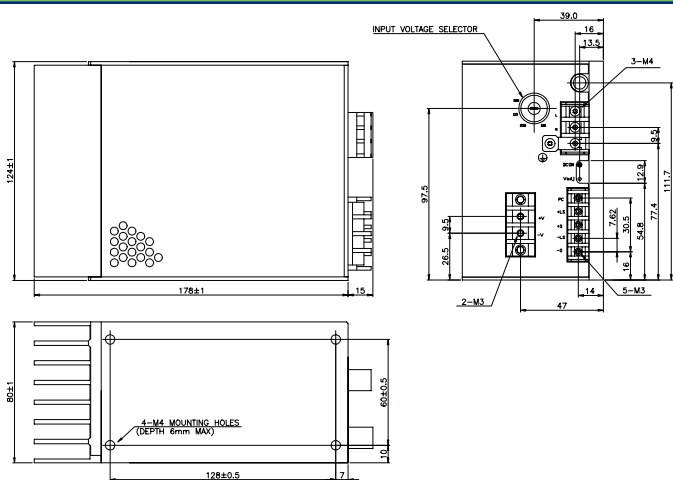
Model Selector

	Model	O/P	O/P(V)	Max Cur.(A)	Max Pwr(W)	Eff. (%)
Single Output	NNS155	V1	5	3.0	15.0	35
	NNS305	V1	5	6.0	30.0	35
	NNS505	V1	5	10.0	50.0	42
	NNS1512	V1	12	1.7	20.4	45
	NNS3012	V1	12	4.0	48.0	45
	NNS5012	V1	12	6.5	78.0	51
	NNS1515	V1	15	1.4	21.0	46
	NNS3015	V1	15	3.4	51.0	46
	NNS5015	V1	15	5.5	82.5	53
	NNS1524	V1	24	0.9	21.6	50
	NNS3024	V1	24	2.3	55.2	50
NNS5024	V1	24	3.8	91.2	56	
Dual Output	NND15-1212	V1	+12	0.75	18.0	45
		V2	-12	0.75		
	NND30-1212	V1	+12	1.6	38.4	45
		V2	-12	1.6		
	NND15-1515	V1	+15	0.6	18.0	45
		V2	-15	0.6		
NND30-1515	V1	+15	1.3	39.0	45	
	V2	-15	1.3			

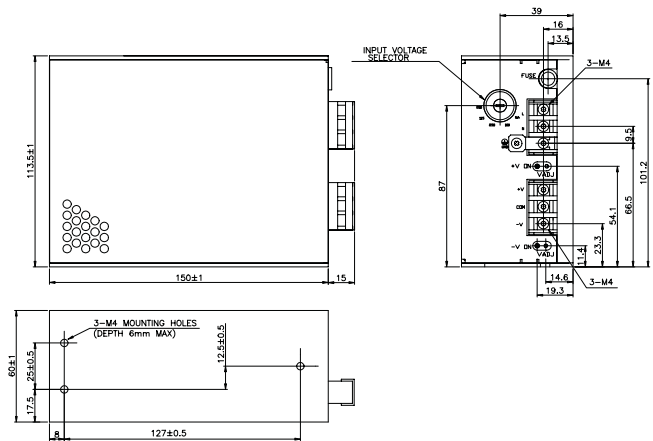
NNS15 Outline Drawing



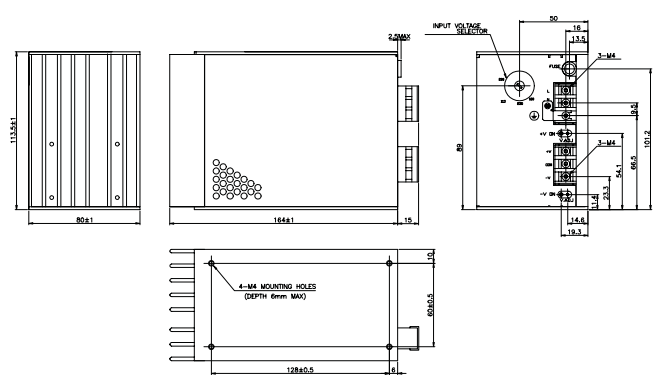
NNS30 Outline Drawing



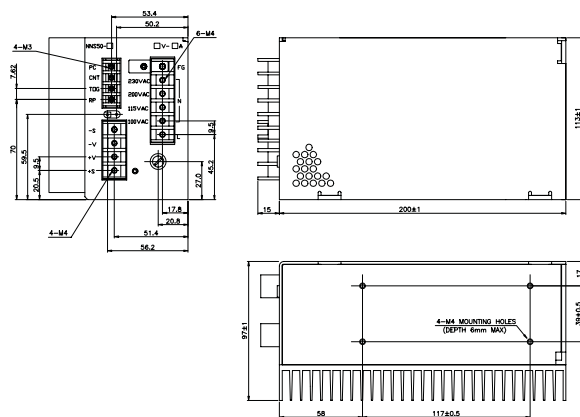
NND15 Outline Drawing



NND30 Outline Drawing



NNS50 Outline Drawing



Other Lambda Industrial Products

- H 15-115W low cost linear, single to triple output
- HWS 15 to 1500W Single output, universal input switching
- ZWS 5 to 150W single output, universal input (switching)
- VSB & VSC 10 to 150W single output, 115VAC input (switching)

For Additional Information, please visit
www.lambdapower.com/products/nn-series.htm