

Specification			
No.	Items	Unit	Model : NLS5000-24
			Vo
1	Nominal Output Voltage	V	24
2	Maximum Output Current	A	208
3	Minimum Output Current	A	0
4	Max Output Power	W	4992
5	Efficiency (typ) (*1)	%	87
6	Input Voltage & Frequency Range	-	180 ~ 264VAC, 47 ~ 63Hz
7	Input Current (max)	A	33.3
8	Inrush Current (typ) (*2)	A	30 @ Cold Start
9	Power Factor (typ) (*2)	-	0.99
10	Output Voltage Adjust Range	V	21.6 ~ 25.2
11	Ripple/Noise (max) (*3)	% p-p	1
12	Line Regulation (max) (*4)	%	0.2
13	Load Regulation (max) (*5)	%	0.5
14	Temperature Coefficient (max) (*6)	% / °C	0.02
15	Over Current Protection (min) (*7)	%	105
16	Over Voltage Protection (*8)	V	28 ~ 32
17	Remote Sensing	-	Possible
18	Over Temperature Protection (*8)	-	Yes
19	Turn On Time (max) (*2,*9)	ms	2,000
20	Hold-up time (typ) (*2,*10)	ms	15
21	Remote ON/OFF (*11)	-	Yes
22	Remote Margin (*12)	%	± 5
23	Power Fail Signal (Loss Of AC) (*13)	-	Yes
24	Output Power Good (Loss Of DC Output) (*14)	-	Yes
25	Current Monitor (Output) (*15)	-	Yes
26	Current Share Balance (*16)	-	Yes
27	Operating Temperature, Humidity	°C, %RH	0~+50, 20~95 (Non-condensing)
28	Storage Temperature, Humidity	°C, %RH	-30~+85, 20~95 (Non-condensing)
29	Cooling	-	Internal Forced Air
30	Withstand Voltage	-	Input - Output ... 2121VDC 5sec. Input - Chassis ... 2121VDC 5sec.
31	Vibration	-	At no operation, 10 - 55Hz (Sweep for 1min) 14.7m/s <sup>2</sup> constant, X, Y, Z 1hour each.
32	Shock (in package)	-	Less than 147.1m/s <sup>2</sup>
33	EMI (Radiated & Conducted Emission)	-	Designed to meet EN55022, Level A
34	Safety Standard	-	UL60950-1, CSA60950-1 & EN60950-1
35	Weight	g	< 7000
36	Size (W x H x D) (*17)	inch	5 x 5 x 15.45 (Refer to outline drawing)
		mm	127 x 127 x 392 (Refer to outline drawing)
37	Warranty	-	1 year

**Note :**

- \*1. At Vin = 230VAC, 80% load & Ta=25°C .
- \*2. At Vin = 230VAC, maximum output power (unless otherwise specified) & Ta=25°C .
- \*3. Bandwidth of scope : 20MHz
- \*4. From Vin = 180 ↔ 264Vac, constant load.
- \*5. From 0% load ↔ 100% load, constant input voltage.
- \*6. From Ta = 0 → 50°C, output will not change more than 1%.
- \*7. Constant current limit with automatic recovery.
- \*8. Output shut down & to be reset by AC re-cycle.
- \*9. Measure from the time AC is turn on to output reach > 85%.
- \*10. Measure from the time AC is turn off to output reach < 85%.
- \*11. Less than 0.5V will inhibit the supply. 2V or more or an open circuit will enable the supply. Logic Return should be connected to negative output. TTL low is disable & high is enable.
- \*12. Allows 5% change in output. Connecting the margin pin to the positive side of output provides +5% change in output. Connecting the margin pin to the negative side of output provides -5% change in output.
- \*13. Upon loss of AC line, signal goes from high to low before loss of output regulation. TTL Low is Fault & High is OK.
- \*14. Provides output logic high signal when DC output is present. When the DC output is not present, the output will drop to logic ground. TTL Low is Fault & High is OK.
- \*15. The current monitor signal is referenced to the negative output. It is accurate to within ±10% of full load, from 10% to 100% load. The analog signal 0V to 5V is proportional to the load when increased from no load to maximum load.
- \*16. Allows 2 or more similar power supply main outputs to load share. Using a single wire when outputs are set within 0.2% of each other and voltage drop on the negative lead matched to within 10%.
- \*17. Exclude the I/O Connectors.