



Features:

- Universal AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Withstand 300VAC surge input for 5 second
- No load power consumption<0.5W
- Cooling by free air convection
- 100% full load burn-in test
- LED indicator for power on
- Operating altitude up to 5000m
- High reliability
- 3 years warranty
- Compliance to IEC/EN/UL 61558-1、CE、CCC、UL、CB
- Comply with RoHS

Specification											
MODEL		NLS-150-5	NLS-150-7.5	NLS-150-12	NLS-150-15	NLS-150-24	NLS-150-27	NLS-150-36	NLS-150-48		
INPUT	VOLTAGE RANGE	85~264Vac 120~370Vdc (refer to 'static characteristic')									
	FREQUENCY RANGE	47~63Hz									
	EFFICIENCY(Typ.)	85%	86%	87.5%	88%	89%	89%	90%	90%		
	AC CURRENT(Typ.)	0.4A/115Vac 0.2A/230Vac									
	INRUSH CURRENT(Typ.)	30A/115Vac 60A/230Vac (cold start) (Lower inrush current was optional)									
	LEAKAGE CURRENT	<0.75mA/240Vac									
OUTPUT	DC VOLTAGE	5V	7.5V	12V	15V	24V	27V	36V	48V		
	RATEDCURRENT	22A	16A	12.5A	10A	6.5A	5.6A	4.4A	3.3A		
	CURRENTRANE	0~22A	0~16A	0~12.5A	0~10A	0~6.5A	0~5.6A	0~4.4A	0~3.3A		
	RATED POWER	110W	120W	150W	150W	156W	151.2W	158.4W	158.4W		
	RIPPLE&NOISE(max.)	100mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
	VOLTAGE ADJ.RANGE	4.5~5.5V	6.75 ~ 8.25V	10.2~13.8V	13.5~18V	21.6~28.8V	24.5~30V	32.4~39.6V	43.2~52.8V		
	VOLTAGE TOLERANCE	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	500ms,30ms/230Vac 500ms,30ms/115Vac									
	HOLD UP TIME(Typ.)	16ms/230Vac 10ms/115Vac									
PROTECTION	OVERLOAD	105%~150% rated output power									
		Protection type: Hiccup mode ,recovers automatically after fault condition is removed.									
	OVERVOLTAGE	5.75~6.75V	10.4~12.5V	14.2~17V	18.2~22.5V	28.8~33.6V	31~35V	40~46.5V	55.2~64.8V		
		Protection type: Shutdown, recovers after repower on									
	OVER TEMPERATURE	Protection type: Shutdown, recovers automatically when the temperature go down									
ENVIRONIMENT	WORKING TEMP., HUMIDITY	-30~+70°C (Refer to "Derating curve") , 20~90%RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40~+85℃, 10~95%RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10∼500Hz, 5G 10min./1 cycle, each along X、Y、Z axes									



	Safety standards Refer to UL/EN62368-1, GB4943.1, EN60335-1,EN61558-1/-2-16									
	Withstand voltage and isolation resistance	1 1/P=EG: 2 1KVac: 100MO / 500Vdc / 25 C / 70%BH								
		Parameter	Standard	Test Level / Note						
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B						
	Electromagnetic compatibility emission	Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B						
	Compatibility emission	Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A(≤80% Load)						
		Voltage flicker	BS EN/EN61000-3-3							
Safety and		BS EN/EN55035								
electromagnetic compatibility		Parameter	Standard	Test Level /Note						
		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A						
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A						
	Electromagnetic compatibility immunity	EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A						
		Surge susceptibility	BS EN/EN61000-4-5	Level 4, 2KV/L-N, 4KV/L/N -FG criteria A						
		Conducted susceptibility	BS EN/EN61000-4-6	Level 3, criteria A						
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4, criteria A						
		Voltage dips and interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods , >95% interruptions 250 periods						
	MTBF	≥ 600Khrs MIL-HDBK-217F(25°C)								
OTHERS	DIMENSION	159*97*30mm(L*W*H)								
	PACKING	0.4Kg; 36pcs/ 15.4Kg/ 0.91CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair—wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load 6. Length of set up time is measured at cold first start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time. 7. The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft). 8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re–confirmed that it still meets EMC directives.									

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Mechanical specification





