

# NS72I series



## Features :

INDUSTRIAL AC input, 180 to 305Vac input  
 High voltage DC input cover 240~430 Vdc input  
 High efficiency up to 90%  
 Protections: Short circuit / Overload / Over voltage  
 Free air convection cooling  
 Constant voltage  
 IP68 design, fully potted,  
 Suitable for dry / damp / wet locations  
 Designed for signage and lighting application  
 Compliance to worldwide safety regulations for lighting  
 3 years warranty

## SPECIFICATION

INPUT	Voltage and Frequency RANGE	180~305Vac, 47 ~ 63Hz, 240~430 Vdc input							
	AC CURRENT	0.8A maximum at 230Vac input voltage, and 0.7A at 277Vac input at 65W load condition							
	INRUSH CURRENT(Typ.)	less than 60 A at 230V input and less than 80A at 277V input							
	LEAKAGE CURRENT	< 1mA at 277VAC							
MODEL		NS60I12	NS65I15 <sub>3</sub>	NS65I18 <sub>3</sub>	NS65I20 <sub>3</sub>	NS72I24	NS72I28 <sub>3</sub>	NS72I36 <sub>3</sub>	NS72I48 <sub>3</sub>
OUTPUT	DC VOLTAGE	12V	15V	18V	20V	24V	28V	36V	48V
	RATED CURRENT	5A	4.3A	3.6A	3.25A	3A	2.6A	2A	1.5A
	RATED POWER	60W	64.5W	64.8W	64W	72W	72W	72W	72W
	VOLTAGE ADJ. RANGE	TBD							
	VOLTAGE TOLERANCE	+/- 3%							
	SETUP, RISE TIME	15 ms at 230VAC , with output fully loaded							
EFFICIENCY (Typ.)	86%~90%, meet Energy Star Level V & ERP Stage 2								
PROTECTION	OVER CURRENT	120% to 150% of rated output current. hiccup mode							
	SHORT CIRCUIT	output shall shut down and automatic restart							
	OVER VOLTAGE	Power supply shall shut down and latched off in the event of output voltage exceed 110~150% of the max rated voltage. To reset the latch, AC input power needs to be recycled.							
	OVER TEMPERATURE	Optional							
ENVIRONMENT	WORKING TEMP.	nominal -30 to +80 C ambient ( 50C at full load, linearly derate to 60% of output rating up to 80C)							
	WORKING HUMIDITY	5% to 100%, non-condensing							
	STORAGE TEMP., HUMIDITY	-40 to 80 C, 5% to 95%RH							
	TEMP. COEFFICIENT	0.1% per degree C maximum							
	VIBRATION	Frequency 5 to 50 Hz, acceleration ±7.35 M/(S <sup>2</sup> S), direction X,Y and Z Axis							
SAFETY & EMC	SAFETY STANDARDS	UL file number E?-USR AND CNR FOR SPECUALTY POWER SUPPLY with class 2 output							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25C / 70% RH							
	EMI CONDUCTION & RADIATION	Meet FCC Part 15 Class B, CISPR22 Class B							
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class A ; EN61000-3-3							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11.							
OTHERS	MTBF	>100K hours, MIL-HDBK217E at 25 degrees C ambient.							
	DIMENSION	approximate 135 (L) X 54 (W) X 35 (H) mm, without junction box( including mounting flanges) 190.5 (L) X 54 (W) X 35 (H) mm, with junction box( including mounting flanges)							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 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. These models are also available upon request (UL Pending).								