

**NS-1500 Series, 1500Watt**
**FEATURES:**

- ✓ Input voltage range 100-240VAC
- ✓ High reliability
- ✓ High power factor(Built-in PFC Circuit)
- ✓ Built-in EMI filter
- ✓ Short circuit, over current, over voltage protections
- ✓ Cooling by fan
- ✓ 100% burn-in test
- ✓ With LED power indicator
- ✓ 5 year warranty



Model	Input voltage (Vac)	Output voltage (Vdc)	Output current (A)	Efficiency Typ.
NS1500-5	100-240	5	240	80%
NS1500-9		9	150	85%
NS1500-12		12	125	87%
NS1500-15		15	100	87%
NS1500-24		24	63	90%
NS1500-48		48	32	91%

**ELECTRICAL**
**Input**

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Input voltage	$V_{in}$	--	90	--	264	Vac
			125	--	370	Vdc
Input frequency	$F_{line}$	--	47	--	63	Hz
Power factor	PF	Full voltage, full load	0.95	--	0.98	PF
Inrush current	$I_{inrush}$	Cold start, $V_{in} = 115V_{ac}$ , full load	--	30	--	A
		Cold start, $V_{in} = 230V_{ac}$ , full load	--	60	--	A
Input current	$I_{in}$	Full load, $V_{in} = 115V_{ac}$	--	16	--	A
		Full load, $V_{in} = 230V_{ac}$	--	7.8	--	A

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**Output**

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Line regulation	$V_{out-line}$	$V_{in}$ from 100 Vac To 240 Vac	--	1	--	%
Load regulation	$V_{out-load}$	$I_{out}$ from min. To max.	--	1	--	%
Hold-on time	$T_{on\_hold}$	Full load, $V_{in}=115Vac$	--	10	--	ms
Turn-on rise time	$T_{on\_rise}$	Cold start, power on	--	--	1500	ms
Ripple & noise	$V_{ripple}$	--	--	120	200	mVp-p

**Protection**

Over current	Type: works at over 105%; it will recover automatically after fault condition is removed					
Short circuit	Hiccup mode, it will recover automatically after fault condition is removed					
Over voltage	Type: 110-150%; Locked mode, it will recover automatically after turn off the power					

**Environment**

Storage	$T_{storage}$	Humidity: 20% RH to 90% RH	-20	--	+85	°C
Ambient operating temperature	$T_a$	Startup at rated voltage (Required Derating)	-10	--	+70	°C
Operating relative humidity	$H_a$	Non condensing	20	--	90	%
MTBF	$T_{MTBF}$	Full load, 230Vac input, 25°C ambient temperature	--	--	30	kHrs
Dimension(LxWxH)	280 x 126.5 x 82mm					

**Safety / EMC**

Withstand voltage	I/P-O/P: 3KVac	I/P-FG: 2KVac	O/P-FG: 0.5KVac
Safety standards	UL, C-UL, CE, CB		
EMC	EN55022 Class A		

**Notes: 1. Rated Load and Rated Input Voltage,  $T_a=25^{\circ}C$ ;**

**2. Ripple & Noise are measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.**

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### MECHANICAL

