

## 50W Single Output Switching Power Supply

NES-50 series

Authorized Distributor: Total Power International, Inc.

Toll Free: 877-646-0900(US)

PH# (978)453-7272

www.total-power.com



## Features:

- Universal AC input/Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

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## **SPECIFICATION**

MODEL		NES-50-5	NES-50-12	NES-50-15	NES-50-24	NES-50-48
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V	48V
	RATED CURRENT	10A	4.2A	3.4A	2.2A	1.1A
	CURRENT RANGE	0 ~ 10A	0 ~ 4.2A	0 ~ 3.4A	0 ~ 2.2A	0 ~ 1.1A
	RATED POWER	50W	50.4W	51W	52.8W	52.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	150mVp-p	200mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load				
	HOLD TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load				
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY(Typ.)	79%	82%	83%	86%	87%
	AC CURRENT (Typ.)	1.1A/115VAC 0.65A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 45A				
	LEAKAGE CURRENT	<2mA / 240VAC				
PROTECTION	OVER LOAD	110 ~ 150% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed				
		Protection type : Hiccup i				55.0 04.014
	OVER VOLTAGE		13.8 ~ 16.2V	17.25 ~ 20.25	27.6 ~ 32.4V	55.2 ~ 64.8V
	WORKING TEMP	Protection type: Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)				
	VIBRATION SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  UL60950-1, CB(IEC60950-1) Approved				
SAFETY & EMC (Note 6)	WITHSTAND VOLTAGE	I/P-0/P:3KVAC   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				
	EMI CONDUCTION & RADIATION					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, ENV50204, EN55024, EN61000-6-1 Light industry level, criteria A				
OTHERS	MTBF	374.2K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	129*98*38mm (L*W*H)				
	PACKING	0.41Kg; 45pcs/19.5Kg/1.24CUFT				
NOTE	All parameters NOT special     Ripple & noise are measure     Tolerance: includes set up     Line regulation is measurec     Load regulation is measure	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  tolerance, line regulation and load regulation.  If from low line to high line at rated load.  d from 0% to 100% rated load.  ered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets				



