

**SPECIFICATION** 

## 50W Triple Output Switching Power Supply

NET-50 series

Authorized Distributor: Total Power International, Inc. Toll Free: 877-646-0900(US) PH# (978

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

## .**%\**u₃ CB(€

MODEL		NET-50A			NET-50B			NET-50C			NET-50D			
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	СНЗ	CH1	CH2	CH3	CH1	CH2	CH3	
OUTPUT	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V	
	RATED CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	3A	1A	1A	
	CURRENT RANGE Note.6	0.6 ~ 5A	0.2 ~ 2.5A	0.1 ~ 0.7A	0.6 ~ 5A	0.2 ~ 2.5A	0.1 ~ 0.7A	0.6 ~ 5A	0.1 ~ 2A	0.1 ~ 0.7A	0.6 ~ 5A	0.1 ~ 1.5A	0.1 ~ 1.5A	
	RATED POWER	46.5W			50W			50W			51W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p 120mVp-p 120mVp-p			80mVp-p   120mVp-p   120mVp-p			80mVp-p 150mVp-p 150mVp-p			80mVp-p   200mVp-p   120mVp-p			
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±5.0%	±2.0%	±6.0%	±5.0%	±2.0%	±8.0%	±5.0%	±2.0%	±8.0%	±6.0%	
	LINE REGULATION Note.4	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	
	LOAD REGULATION Note.5	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±3.0%	
	SETUP, RISE TIME	500ms, 30	ms/230VA	C 120	0ms, 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.)	76%	76%			78%			78%			80%		
	AC CURRENT (Typ.)	1.1A/115VAC 0.65A/230VAC												
	INRUSH CURRENT (Typ.)	COLD ST	COLD START 45A											
	LEAKAGE CURRENT	<2mA / 24	<2mA / 240VAC											
PROTECTION	OVER LOAD	110 ~ 150% rated output power												
		Protection type: Hiccup mode, recovers automatically after fault condition is removed												
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V												
		Protection type: Shut down o/p voltage, re-power on to recover  -20 ~ +60°C (Refer to output load derating curve)												
ENVIRONMENT	WORKING TEMP.				id derating	derating curve)								
	WORKING HUMIDITY		RH non-co											
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT		±0.03%/°C (0~45°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes												
	SAFETY STANDARDS WITHSTAND VOLTAGE	UL60950-1, CB(IEC60950-1) Approved												
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3KVAC												
EMC	EMI CONDUCTION & RADIATION													
(Note 6)	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												
	MTBF	348.4K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION				117 (25 )	1								
	PACKING	129*98*38mm (L*W*H) 0.44Kg; 45pcs/21Kg/1.24CUFT												
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 20% to 100% rated load, and other output at 60% rated load.  6. Each output can work within current range. But total output power can't exceed rated output power.  7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.													



