50W AC-DC Triple Output Industrial Adaptor GP50A-T series



Features

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- No load power consumption < 0.3W
- **Energy efficiency level** VI
- Comply with EISA 2007/DoE
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- -20 ~ +70℃ working temperature
- LED indicator for power on
- 3 years warranty

Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

Description

GP50A is a 50W triple-output desktop type green adaptor series, complying with the mandatory energy saving standard USA EISA 2007/DoE (Level VI). Adopting Class I design and utilizing the standard inlet IEC320-C14, it is designed with FG and uses the 94V-0 flame retardant plastic enclosure, which can effectively prevent electric shock hazards. This series operates from 90~264VAC and offers three models with the output voltage sets +5V/+12V/-5V, +5V/+12V/-12V and +5V/+15V/-15V. Its supreme advantages includes the less-than-0.3W no load power consumption, the capability of working under -20~+70℃ ambient temperature, complete protection functions and three-year warranty and the compliance to the international safety certification such as CB, TUV, UL, CE and FCC. GP50A is a multiple-output green adaptor with high safety, high reliability and high quality.

Model Encoding

GP50A 13A -R1B

- R1B: DC plug type — Plug for standard model, power DIN 5 pin; Optional plug type available by customer requested
- 13A: Output voltage
- A: IEC320-C14 3pin AC input
- 50: Output wattage
- GP: Series name

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SPECIFICATION

ORDER NO.		GP50A13A-R1B			GP50A13D-R1B			GP50A14E-R1B		
OUTPUT	SAFETY MODEL NO.	GP50A13A			GP50A13D			GP50A14E		
	DC VOLTAGE Note.2	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	RATED SET CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A
	CURRENT RANGE	0 ~ 4.0A	0.3 ~ 2.0A	0.1 ~ 0.5A	0 ~ 4.0A	0.3 ~2.0A	0.1 ~0.5A	0 ~ 4.0A	0.3 ~ 1.5A	0.1 ~ 0.5A
	RATED POWER	46.5W			50W			50W		
	RIPPLE & NOISE (max.) Note.3	50mVp-p	100mVp-p	100mVp-p	50mVp-p	150mVp-p	100mVp-p	50mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.4	±5.0%	±3.0%	±5.0%	±5.0%	±3.0%	±5.0%	±5.0%	±3.0%	±5.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION Note.6	±5.0%	±3.0%	±5.0%	±5.0%	±3.0%	±5.0%	±5.0%	±3.0%	±5.0%
	SETUP, RISE, HOLD UP TIME	1000ms, 50ms, 20ms / 230VAC 1500ms, 50ms, 16ms / 115VAC at full load								
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	84%			84%			84.5%		
	AC CURRENT	1.6A / 100VAC 0.8A / 230VAC								
	INRUSH CURRENT (max.)	45A / 230VAC								
	LEAKAGE CURRENT (max.)	0.75mA / 240VAC								
PROTECTION	OVERLOAD	150 ~ 250% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	Protection type : Clamp by zener diode, output short								
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 40℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL60950-1, CSA22.2, EN60950-1 approved								
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC , I/P-FG:2121VDC								
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH								
	EMC EMISSION	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART15 / CISP22 class B								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, light industry level, criteria A								
	LIFE	3 years : 100% load 40℃, 8hours / day								
OTHERS	MTBF	280K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	146*75.5*43mm (L*W*H)								
	PACKING	0.55kg; 36pcs / 21kg / CARTON								
CONNECTOR	PLUG	See page 3								
	CABLE	See page 3								

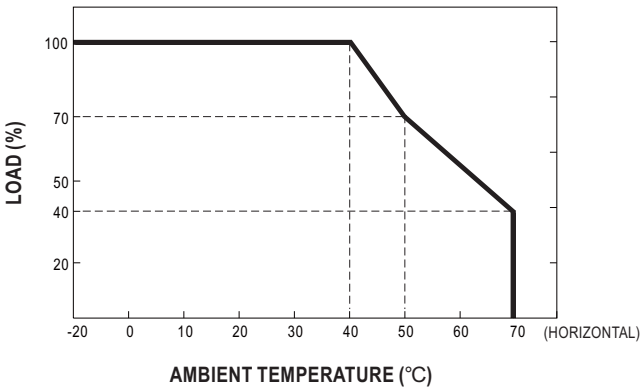
NOTE

1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient.
2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
4.Tolerence: includes set up tolerance, line regulation, load regulation.
5.Line regulation is measured from low line to high line at rated load.
6.When measured between the light load (20% of rated load) and full load, the load regulation is within ±5% whereas the cross regulation is within ±15%.
7.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to “EMI testing of component power supplies.” (as available on http://www.meanwell.com)

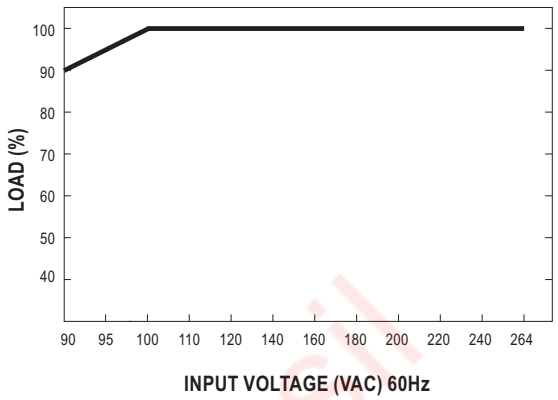
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■ Derating Curve

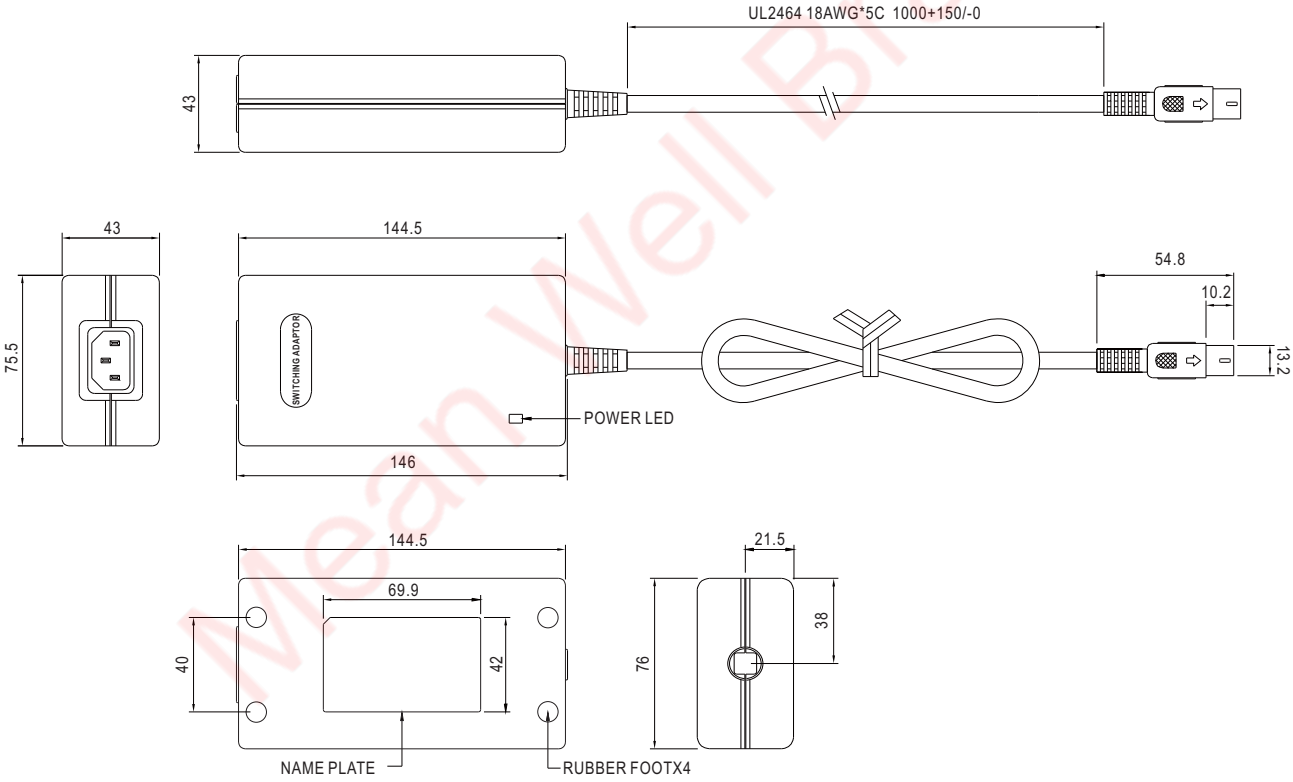


■ Static Characteristics



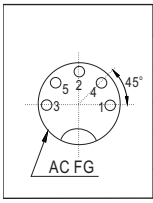
■ Mechanical Specification

Unit:mm



■ Plug Assignment

Standard plug: R1B



PIN NO	OUTPUT
1	COM
2	COM
3	+5VDC
4	-Vout
5	+Vout

■ Installation Manual

Please refer to : http://www.meanwell.com/webnet/search/InstallationSearch.html

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