


CB


■ Features

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.3W
- **Energy efficiency level VI**
- Comply with EISA 2007/DoE
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- -20 ~ +70°C working temperature
- LED indicator for power on
- Dual output available (optional)
- ± 16V /+48V also available for video system (optional, order NO. : GP50A58F-R1B)
- 3 years warranty

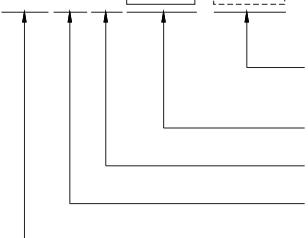
■ Applications

- 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, +5V/+15V/-15V and can option +16V/+48V/-16V. Its supreme advantages includes the less-than-0.3W no load power consumption, the capability of working under -20~+70°C 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


DC plug type R1B: Plug for standard model, power DIN 5 pin
Other options available by customer requested (see Page 4)

Output voltage

IEC320-C14 3pin AC input

Rated wattage

Series name



SPECIFICATION

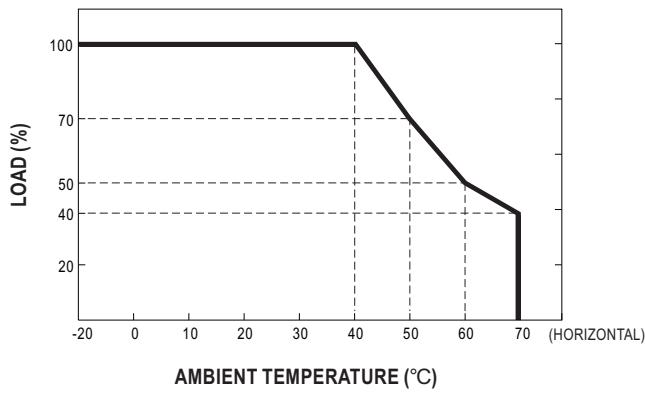
ORDER NO.		GP50A13A-R1B			GP50A13D-R1B			GP50A14E-R1B			GP50A58F-R1B (option)											
OUTPUT	SAFETY MODEL NO.	GP50A13A			GP50A13D			GP50A14E			GP50A58F											
	DC VOLTAGE Note.2	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	16V	48V	-16V									
	RATED SET CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	2A	0.15A	2A									
	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	0.4 ~ 2.0A	30mA ~ 150mA	0.4 ~ 2.0A									
	RATED POWER	46.5W			50W			50W			71.2W											
	RIPLPE & NOISE (max.) Note.3	50mVp-p	100mVp-p	100mVp-p	50mVp-p	150mVp-p	100mVp-p	50mVp-p	150mVp-p	150mVp-p	180mVp-p	180mVp-p	180mVp-p									
	VOLTAGE TOLERANCE Note.4	±5.0%	±3.0%	-5% ~ +10%	±5.0%	±3.0%	-5% ~ +8%	±5.0%	±3.0%	-5% ~ +15%	±5.0%	-5% ~ +10%	-5% ~ +10%									
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±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%	±5.0%	±5.0%	±5.0%									
INPUT	SETUP, RISE, HOLD UP TIME	1500ms, 50ms, 20ms / 230VAC			2500ms, 50ms, 16ms / 115VAC at full load																	
	VOLTAGE RANGE Note.7	90 ~ 264VAC 135 ~ 370VDC																				
	FREQUENCY RANGE	47 ~ 63Hz																				
	EFFICIENCY (Typ.)	83.5%		84%		84.5%		86%														
	AC CURRENT	1.6A / 100VAC		0.8A / 230VAC																		
	INRUSH CURRENT (max.)	Cold start 35A/115VAC		65A / 230VAC																		
	LEAKAGE CURRENT (max.)	0.75mA / 240VAC																				
PROTECTION	OVERLOAD	120 ~ 200% rated output power																				
	OVER VOLTAGE	Protection type : Clamp by zener diode, output short																				
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")																				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing																				
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH non-condensing																				
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 40°C)																				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes																				
SAFETY & EMC (Note. 8)	SAFETY STANDARDS	IEC62368-1, UL62368-1, CSA22.2, BS EN/EN62368-1(Except for GP50A58F-R1B), EAC TP TC 004 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°C / 70% RH																				
	EMC EMISSION	Parameter	Standard			Test Level / Note																
		Conducted emission	BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			Class B																
		Radiated emission	BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)			Class B																
		Harmonic current	BS EN/EN61000-3-2			Class A																
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3																			
		Parameter	Standard			Test Level / Note																
		ESD	BS EN/EN61000-4-2			Level 3, 8KV air; Level 2, 4KV contact																
		RF field susceptibility	BS EN/EN61000-4-3			Level 2, 3V/m																
		EFT bursts	BS EN/EN61000-4-4			Level 2, 1KV																
		Surge susceptibility	BS EN/EN61000-4-5			Level 3, 1KV/L-N, 2KV/L,N-PE																
		Conducted susceptibility	BS EN/EN61000-4-6			Level 2, 3V																
OTHERS	Voltage dips, interruption	BS EN/EN61000-4-11						>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods														
	LIFE	3 years : 100% load 40°C, 8hours / day																				
CONNECTOR	MTBF	280K hrs min. MIL-HDBK-217F (25°C)																				
	DIMENSION	146*75.5*43mm (L*W*H)																				
NOTE	PACKING	0.55kg; 36pcs / 21kg / CARTON																				
	PLUG	See page 4																				
	CABLE	See page 4																				
1.All parameters are specified at 230VAC input, rated load, 25°C 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 0.1µF & 47µF capacitor. 4.Tolerance: 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.Derating may be needed under low input voltages. Please check the static characteristics for more details. 8.The power supply is considered as an independent unit, but the final equipment still need to re-confirmed 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)																						
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx																						



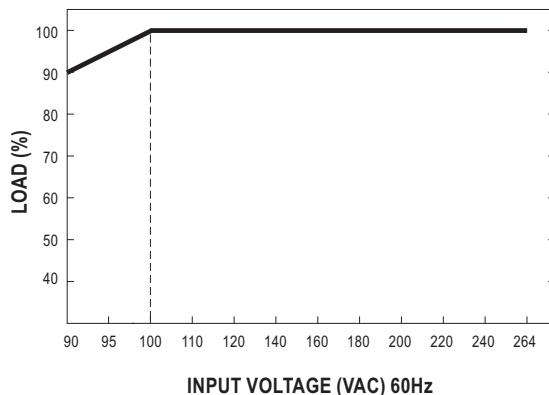
50W AC-DC Triple Output Industrial Adaptor

GP50A series

■ Derating Curve

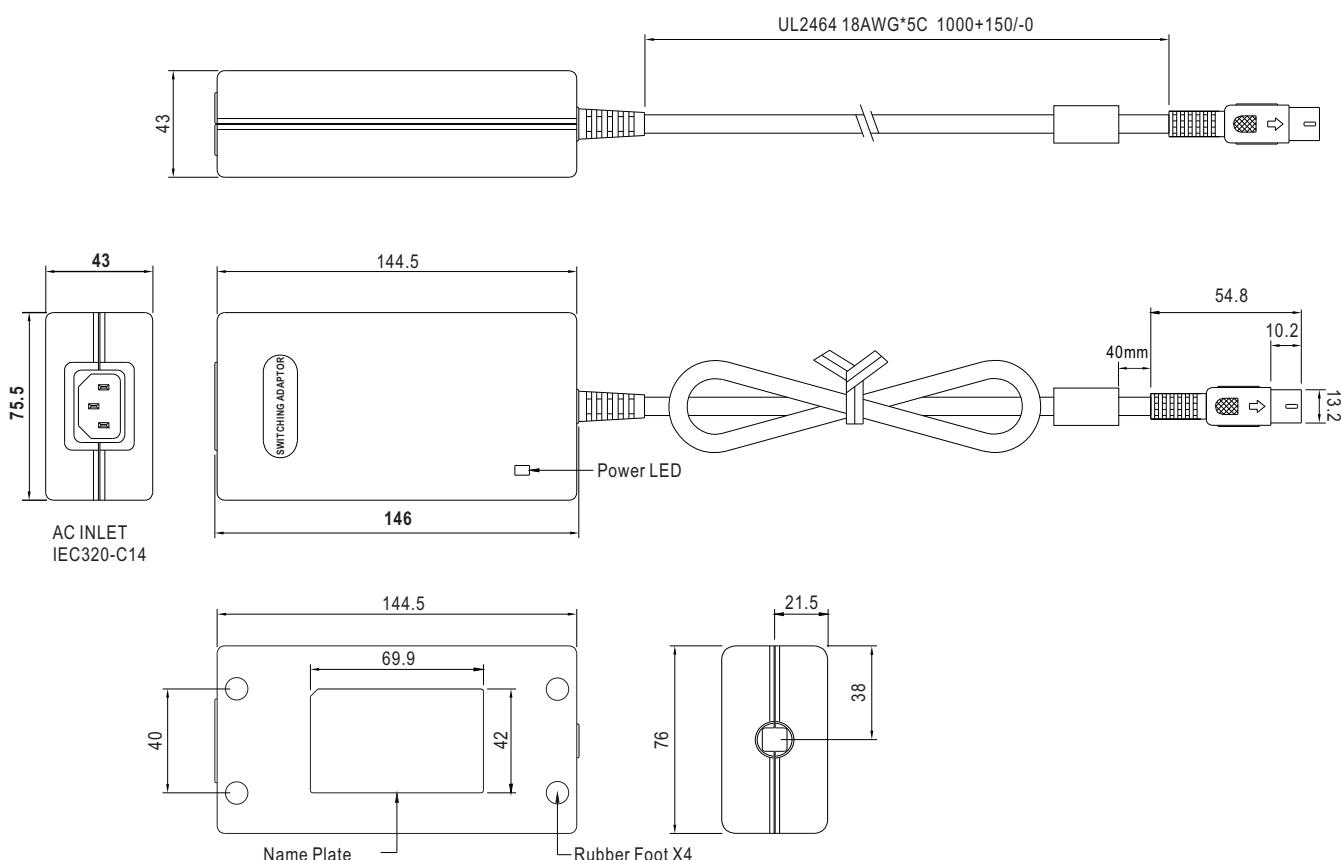


■ Static Characteristics



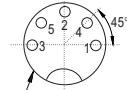
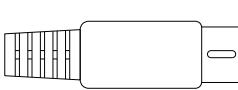
■ Mechanical Specification

Unit:mm

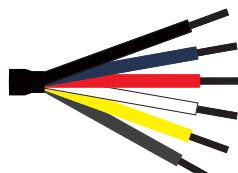
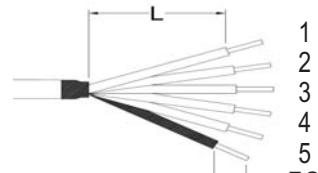


■ DC output plug

- ◎ Standard plug: R1B

DIN 5 Pin (male)	Type No.	Pin Assignment	
		PIN No.	Output
  	R1B	1	COM
		2	COM
		3	+5VDC
		4	-Vout
		5	+Vout

- ◎ Optional DC plug:

Stripped and tinned leads	Type No.	Pin Assignment	
		PIN No.	Output
  Length of Land L1 by request (MW's standard length, L: 70 mm, L1: 10 mm)	by customer	1(Black)	COM
		2(Blue)	COM
		3(Red)	+5VDC
		4(White)	-Vout
		5(Yellow)	+Vout
		FG(Drain Wire)	FG

■ Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>