



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

GTIN CODE

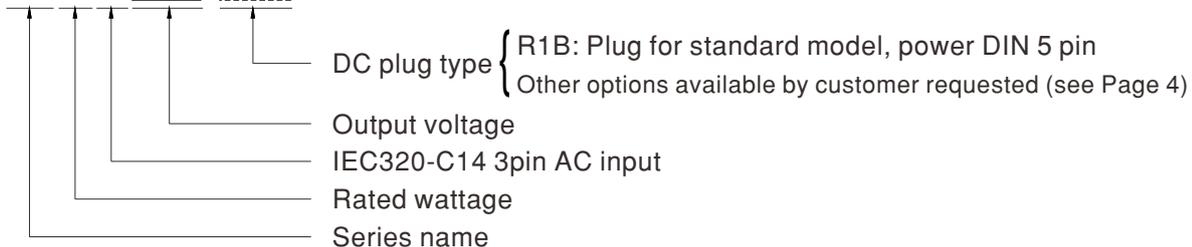
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

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

GP50 A 13A -R1B





50W AC-DC Triple Output Industrial Adaptor

GP50A series

SPECIFICATION

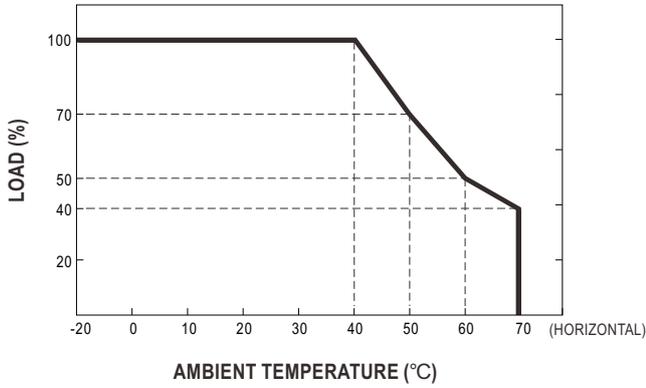
ORDER NO.	GP50A13A-R1B	GP50A13D-R1B	GP50A14E-R1B	GP50A58F-R1B (option)											
OUTPUT	SAFETY MODEL NO.		GP50A13A	GP50A13D	GP50A14E	GP50A58F									
	DC VOLTAGE	Note.2	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	16V	48V	-16V	
	RATED SET CURRENT		4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	2A	0.15A	2A	
	CURRENT RANGE		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			
	RIPPLE & 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%	
	SETUP, RISE, HOLD UP TIME		1500ms, 50ms, 20ms / 230VAC			2500ms, 50ms, 16ms / 115VAC at full load									
INPUT	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		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°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									
		Voltage flicker		BS EN/EN61000-3-3		-----									
	EMC IMMUNITY	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										
Voltage dips, interruption			BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods										
OTHERS	LIFE		3 years : 100% load 40°C, 8hours/day												
	MTBF		280K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION		146*75.5*43mm (L*W*H)												
	PACKING		0.55kg; 36pcs / 21kg / CARTON												
CONNECTOR	PLUG		See page 4												
	CABLE		See page 4												
NOTE	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>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%.</p> <p>7.Derating may be needed under low input voltages. Please check the static characteristics for more details.</p> <p>8.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)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>														



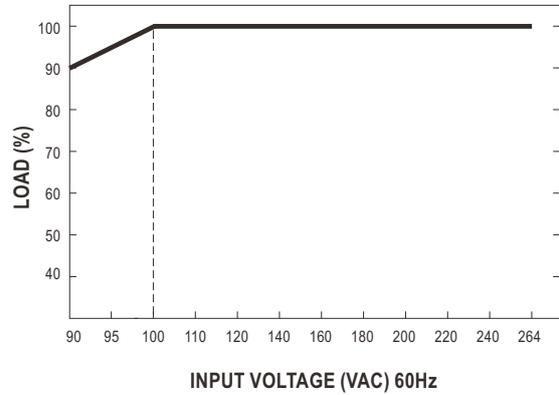
50W AC-DC Triple Output Industrial Adaptor

GP50A series

Derating Curve

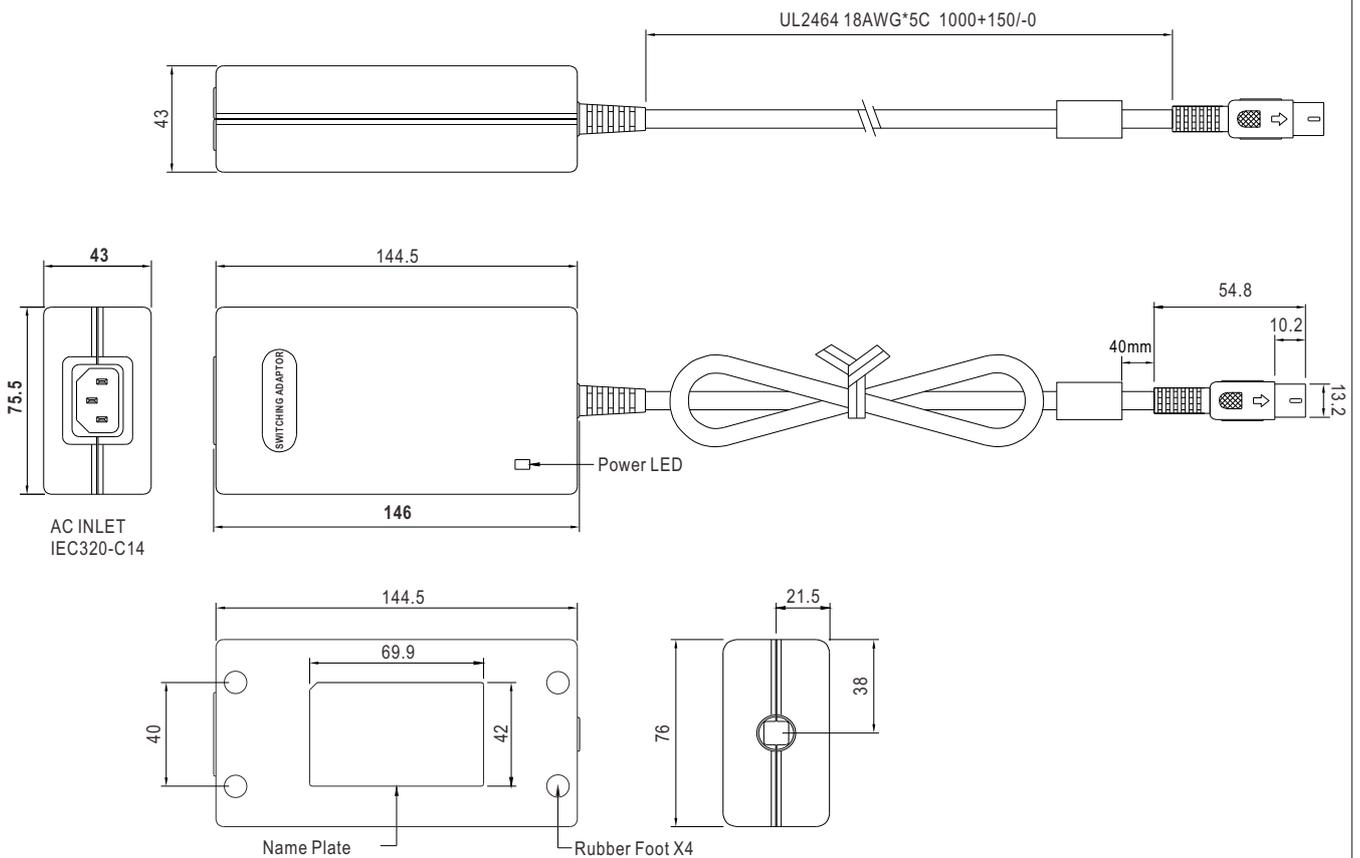


Static Characteristics



Mechanical Specification

Unit:mm





50W AC-DC Triple Output Industrial Adaptor

GP50A series

■ 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
<p>Length of Land L1 by request (MW's standard length, L: <u>70</u> mm, L1: <u>10</u> mm)</p>	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>