UL60950-1 EN60950-1 IEC60950-1

ECO Household Automate Industrial Security Network Telecom

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℃ working temperature
- LED indicator for power on
- Dual output available (optional)
- ± 16V /+48V also available for video system (optional, order NO. : GP25A58F-R1B)
- 3 years warranty

Applications

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

Description

GP25A is a 25W 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. GP25A is a multiple-output green adaptor with high safety, high reliability and high quality.

Model Encoding

GP25 A 13A - R1B

- R1B: DC plug type — Plug for standard model, power DIN 5 pin; Other options available by customer requested (see Page 4)
- 13A: Output voltage
- A: IEC320-C14 3pin AC input
- 25: Rated wattage
- GP: Series name

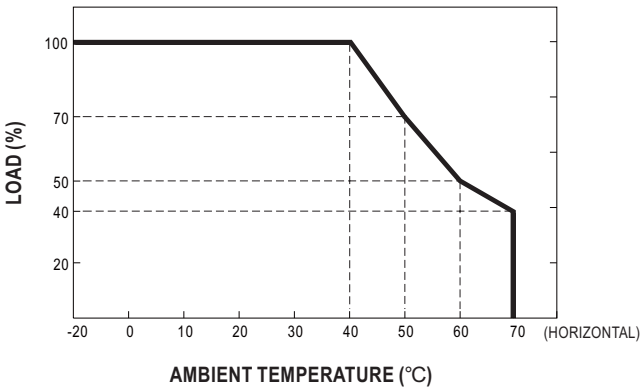
SPECIFICATION

ORDER NO.		GP25A13A-R1B			GP25A13D-R1B			GP25A14E-R1B		
OUTPUT	SAFETY MODEL NO.	GP25A13A			GP25A13D			GP25A14E		
	DC VOLTAGE Note.2	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	RATED SET CURRENT	2.5A	1.2A	0.3A	2.5A	1A	0.3A	2.5A	0.8A	0.3A
	CURRENT RANGE	0.5 ~ 2.5A	0.2 ~ 1.2A	0.1 ~ 0.3A	0.5 ~ 2.5A	0.2 ~ 1A	0.1 ~0.3A	0.5 ~ 2.5A	0.1 ~ 0.8A	0.1 ~ 0.3A
	RATED POWER	28.5W			28W			29W		
	RIPPLE & NOISE (max.) Note.3	50mVp-p	100mVp-p	50mVp-p	60mVp-p	120mVp-p	50mVp-p	100mVp-p	150mVp-p	50mVp-p
	VOLTAGE TOLERANCE Note.4	±5.0%	-5.0 ~ +10%	±3.0%	±5.0%	-5.0 ~ +5.0%	±3.0%	±5.0%	-5.0 ~ +15%	±3.0%
	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%	±5.0%	±3.0%	±5.0%	±5.0%	±3.0%	±5.0%	±5.0%	±3.0%
	SETUP, RISE, HOLD UP TIME	800ms, 50ms, 20ms / 230VAC 1200ms, 50ms, 16ms / 115VAC at full load								
INPUT	VOLTAGE RANGE Note.7	90 ~ 264VAC 135~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	80%			80%			80.5%		
	AC CURRENT	0.8A / 100VAC 0.4A / 230VAC								
	INRUSH CURRENT (max.)	Cold start 30A / 115VAC 60A / 230VAC								
	LEAKAGE CURRENT (max.)	0.75mA / 240VAC								
PROTECTION	OVERLOAD	110 ~ 160% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	Protection type : Clamp by zener diode(5V only), 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 non-condensing								
	TEMP. COEFFICIENT	±0.03% / ℃ (-20 ~ 40℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 8)	SAFETY STANDARDS	IEC60950-1, UL60950-1, CSA22.2, EN60950-1, 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℃/ 70% RH								
	EMC EMISSION	Parameter	Standard	Test Level / Note						
		Conducted emission	EN55032(CISPR32),FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)	Class B						
		Radiated emission	EN55032(CISPR32),FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)	Class B						
		Harmonic current	EN61000-3-2	Class A						
		Voltage flicker	EN61000-3-3	-------						
	EMC IMMUNITY	Parameter	Standard	Test Level /Note						
		ESD	EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact						
		RF field susceptibility	EN61000-4-3	Level 2, 3V/m						
		EFT bursts	EN61000-4-4	Level 2, 1KV						
		Surge susceptibility	EN61000-4-5	Level 3, 1KV/L-N, 2KV/L,N-PE						
		Conducted susceptibility	EN61000-4-6	Level 2, 3V						
		Voltage dips , interruption	EN61000-4-11	＞95% dip 0. 5 periods, 30% dip 25 periods, ＞95% interruptions 250 periods						
OTHERS	LIFE	3 years : 100% load 40℃, 8hours / day								
	MTBF	620K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	107.5*67*36mm (L*W*H)								
	PACKING	0.3kg; 54pcs / 20kg / CARTON								
CONNECTOR	PLUG	See page 4								
	CABLE	See page 4								

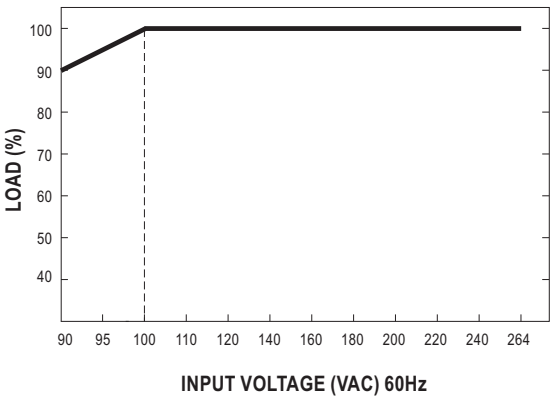
NOTE

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 0.1μf & 47μf 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.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-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)

■ Derating Curve

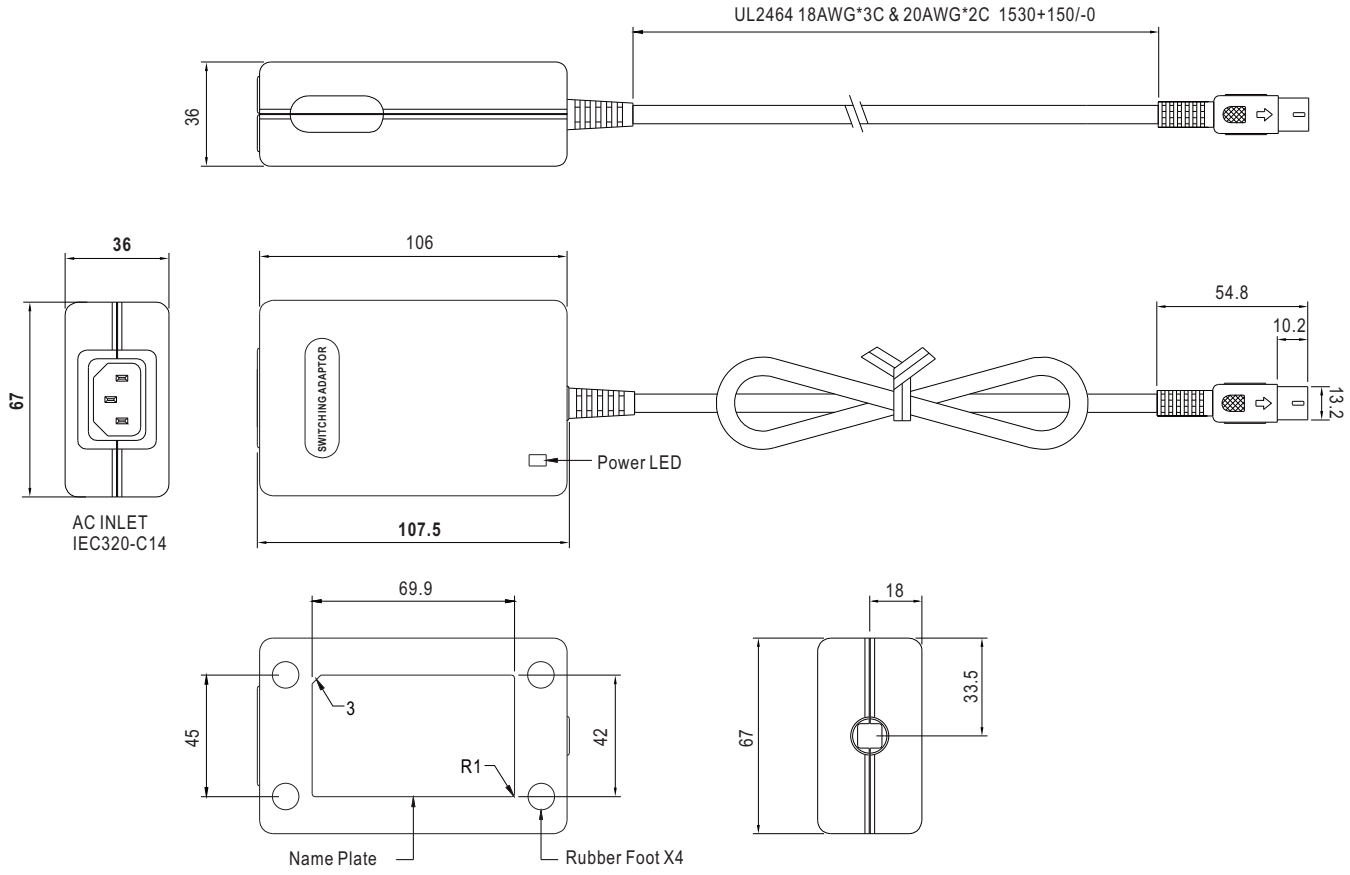


■ Static Characteristics



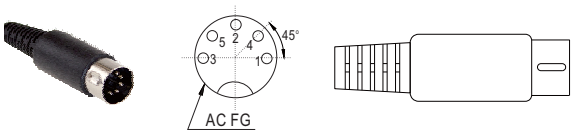
■ Mechanical Specification

Unit:mm

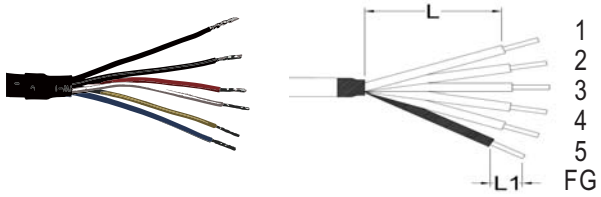


■ DC output plug

◎ 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	COM
		2	COM
		3	+5VDC
		4	-Vout
		5	+Vout
		FG	FG

■ Installation Manual

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