



## 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. : GP25A58F-R1B)
- 3 years warranty

## Applications

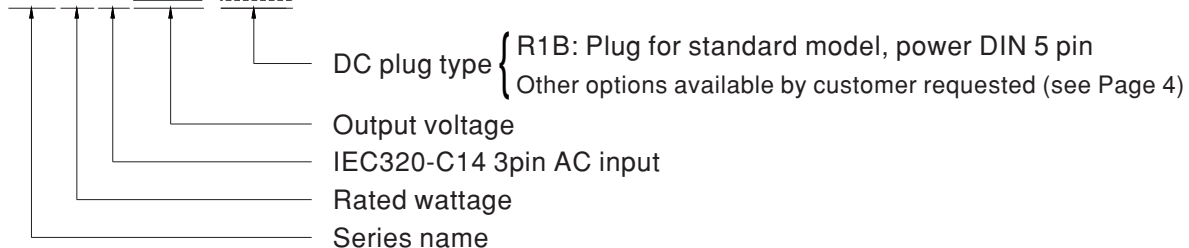
- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

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

## Model Encoding

GP25 A 13A -R1B





## SPECIFICATION

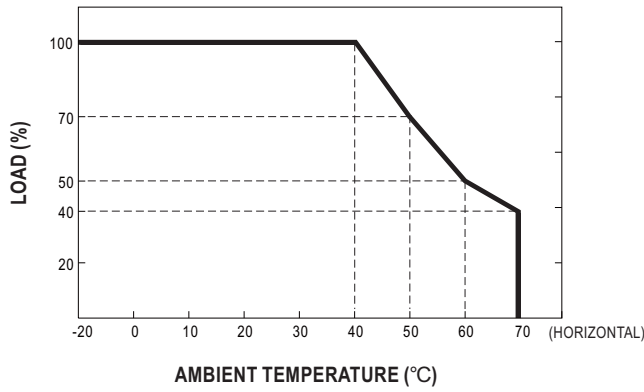
| ORDER NO.                   |   | GP25A13A-R1B  |  |            | GP25A13D-R1B                             |              |            | GP25A14E-R1B   |  |            | GP25A58F-R1B (option) |           |             |  |
|-----------------------------|---|---|--|------------|--|--------------|------------|--|--|------------|-----------------------|-----------|-------------|--|
| OUTPUT                      | SAFETY MODEL NO.  | GP25A13A  |  |            | GP25A13D                                 |              |            | GP25A14E   |  |            | GP25A58F              |           |             |  |
|                             | DC VOLTAGE                      Note.2  | 5V  | 12V  | -5V        | 5V                                       | 12V          | -12V       | 5V   | 15V                                    | -15V       | 16V                   | 48V       | -16V        |  |
|                             | RATED SET CURRENT   | 2.5A  | 1.2A   | 0.3A       | 2.5A                                     | 1A           | 0.3A       | 2.5A   | 0.8A                                   | 0.3A       | 1.05A                 | 0.087A    | 1.05A       |  |
|                             | 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 | 0.2 ~ 1.05A           | 17mA~87mA | 0.2 ~ 1.05A |  |
|                             | RATED POWER   | 28.5W   |  |            | 28W                                      |              |            | 29W  |  |            | 37.77W                |           |             |  |
|                             | RIPPLE & NOISE (max.) Note.3  | 50mVp-p   | 100mVp-p   | 50mVp-p    | 60mVp-p                                  | 120mVp-p     | 50mVp-p    | 100mVp-p   | 150mVp-p                               | 50mVp-p    | 200mVp-p              | 200mVp-p  | 200mVp-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%      | ±5.0%                 | ±5.0%     | -5.0 ~ +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%   | ±5.0%  | ±3.0%      | ±5.0%                                    | ±5.0%        | ±3.0%      | ±5.0%  | ±5.0%                                  | ±3.0%      | ±5.0%                 | ±5.0%     | ±5.0%       |  |
| 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%  |  |            | 85%                   |           |             |  |
|                             | 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   |  |            |  |              |            |  |  |            |                       |           |             |  |
|                             | OVER VOLTAGE  | Protection type : Hiccup mode, recovers automatically after fault condition is removed            |  |            |  |              |            |  |  |            |                       |           |             |  |
| 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% / °C (-20 ~ 40℃)   |  |            |  |              |            |  |  |            |                       |           |             |  |
|                             | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                           |  |            |  |              |            |  |  |            |                       |           |             |  |
|                             | SAFETY STANDARDS  | IEC62368-1, UL62368-1, CSA22.2, BS EN/EN62368-1(Except for GP25A58F-R1B ), EAC TP TC 004 approved |  |            |  |              |            |  |  |            |                       |           |             |  |
| SAFETY & EMC<br>(Note. 8)   | 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  | 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,<br>>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.<br>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.<br>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor.<br>4.Tolerance: includes set up tolerance, line regulation, load regulation.<br>5.Line regulation is measured from low line to high line at rated load.<br>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%.<br>7.Derating may be needed under low input voltages. Please check the static characteristics for more details.<br>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."<br>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |   |  |            |  |              |            |  |  |            |                       |           |             |  |



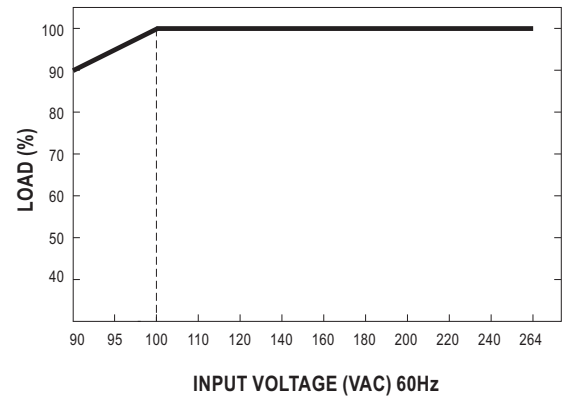
25W AC-DC Triple Output Industrial Adaptor

GP25A series

Derating Curve

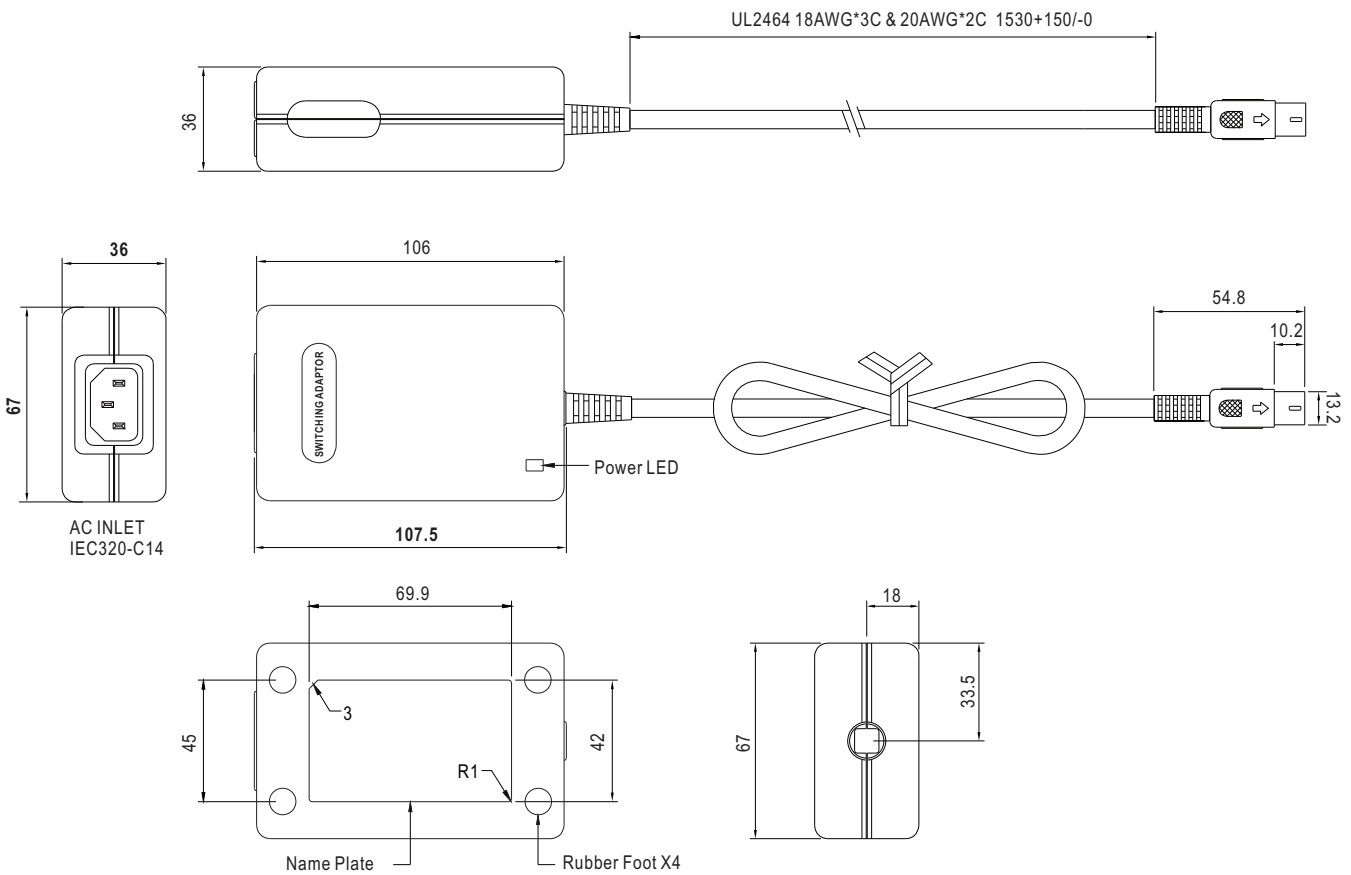


Static Characteristics



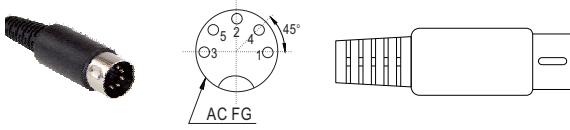
Mechanical Specification

Unit:mm

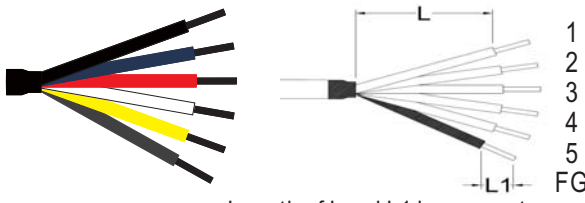


### ■ DC output plug

☉ 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 |
|  <p>Length of Land L1 by request<br/>(MW's standard length, L: 70 mm, L1: 10 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>