



## ■ Features

- 3 pole AC inlet IEC320-C14, Class I power unit
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Extremely low leakage current
- No load power consumption<0.15W
- Energy efficiency level VI and meet CoC Version 5
- -30~+70°C wide range working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- LED indicator for power on
- Lifetime > 95 K hours
- [Various DC plug quick adapter accessory available](#)  
(Plug kit sold separately, please refer to : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf))
- 3 years warranty

## ■ Applications

- Mobile clinical workstation
- Oral irrigator
- Portable hemodialysis machine
- Breath Machine
- Medical computer monitor

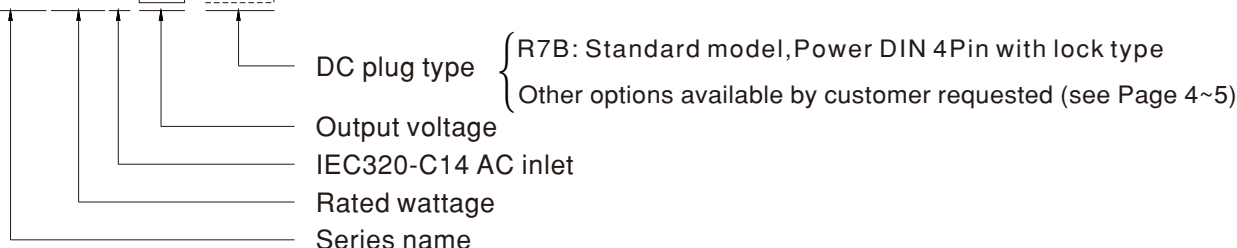
## ■ Description

GSM120A is a highly reliable, 120W desktop style single-output green medical adaptor series. This product is equipped with a 3-pin (with FG) standard IEC320-C14 power plug, adopting the input range from 80VAC to 264VAC. The entire series supplies different output voltages between 12VDC and 48VDC that can satisfy the demands for various kinds of medical electrical devices. The circuitry design meets the international medical standards (2\*MOPP), having an ultra low leakage current (<100μA), fitting the medical devices in direct electrical contact with the patients.

With the efficiency up to 91.5% and the extremely low no-load power consumption below 0.15W, GSM120A is compliant with USA EISA 2007/DoE, Canada NRCAN, Australia and New Zealand MEPS, EU ErP, and meet Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case. GSM120A is approved with the international medical safety certificates.

## ■ Model Encoding

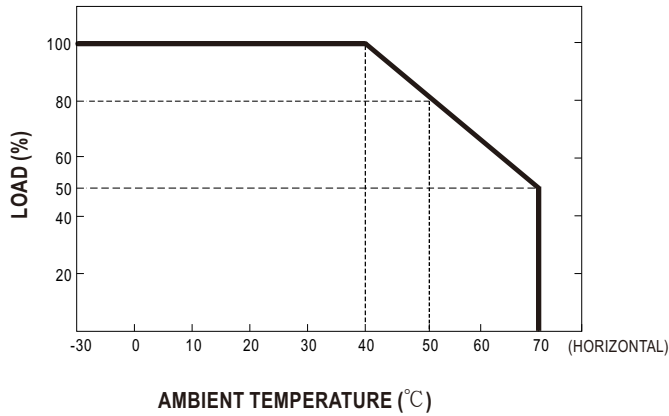
**GSM120A 12 -R7B**



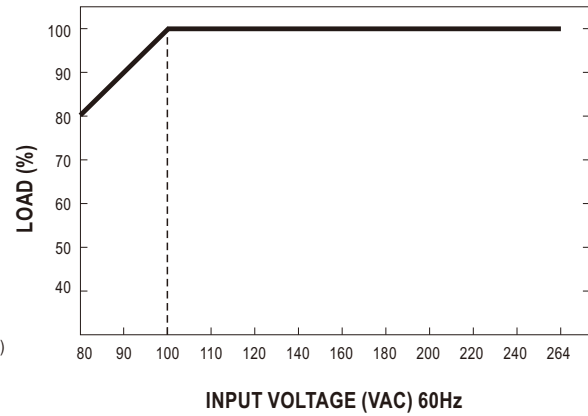
# SPECIFICATION

| ORDER NO.                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GSM120A12-R7B                                                                                                           | GSM120A15-R7B                                                                                                                 | GSM120A20-R7B | GSM120A24-R7B | GSM120A48-R7B                                                          |  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|------------------------------------------------------------------------|--|
| OUTPUT                                | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GSM120A12                                                                                                               | GSM120A15                                                                                                                     | GSM120A20     | GSM120A24     | GSM120A48                                                              |  |
|                                       | DC VOLTAGE <span>Note.2</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12V                                                                                                                     | 15V                                                                                                                           | 20V           | 24V           | 48V                                                                    |  |
|                                       | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.5A                                                                                                                    | 7A                                                                                                                            | 6A            | 5A            | 2.5A                                                                   |  |
|                                       | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 ~ 8.5A                                                                                                                | 0 ~ 7A                                                                                                                        | 0 ~ 6A        | 0 ~ 5A        | 0 ~ 2.5A                                                               |  |
|                                       | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 102W                                                                                                                    | 105W                                                                                                                          | 120W          | 120W          | 120W                                                                   |  |
|                                       | RIPPLE & NOISE (max.) <span>Note.3</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100mVp-p                                                                                                                | 120mVp-p                                                                                                                      | 180mVp-p      | 180mVp-p      | 200mVp-p                                                               |  |
|                                       | VOLTAGE TOLERANCE <span>Note.4</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ± 5.0%                                                                                                                  | ± 5.0%                                                                                                                        | ± 5.0%        | ± 3.0%        | ± 2.5%                                                                 |  |
|                                       | LINE REGULATION <span>Note.5</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ± 1.0%                                                                                                                  | ± 1.0%                                                                                                                        | ± 1.0%        | ± 1.0%        | ± 1.0%                                                                 |  |
|                                       | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ± 5.0%                                                                                                                  | ± 5.0%                                                                                                                        | ± 4.0%        | ± 3.0%        | ± 2.5%                                                                 |  |
|                                       | SETUP, RISE TIME <span>Note.6</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1500ms, 30ms / 230VAC      2000ms, 30ms / 115VAC at full load                                                           |                                                                                                                               |               |               |                                                                        |  |
| HOLD UP TIME (Typ.)                   | 40ms / 230VAC      24ms / 115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                         |                                                                                                                               |               |               |                                                                        |  |
| INPUT                                 | VOLTAGE RANGE <span>Note.7</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80 ~ 264VAC                                                                                                             |                                                                                                                               |               |               |                                                                        |  |
|                                       | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47 ~ 63Hz                                                                                                               |                                                                                                                               |               |               |                                                                        |  |
|                                       | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PF>0.93 / 230VAC      PF>0.97 / 115VAC at full load                                                                     |                                                                                                                               |               |               |                                                                        |  |
|                                       | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 88%                                                                                                                     | 89%                                                                                                                           | 89%           | 90%           | 91.5%                                                                  |  |
|                                       | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.4A / 115VAC      0.7A / 230VAC                                                                                        |                                                                                                                               |               |               |                                                                        |  |
|                                       | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cold start 35A / 115VAC      70A / 230VAC                                                                               |                                                                                                                               |               |               |                                                                        |  |
|                                       | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Earth leakage current < 115 $\mu$ A/264VAC , Touch current <100 $\mu$ A/264VAC                                          |                                                                                                                               |               |               |                                                                        |  |
| PROTECTION                            | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 105 ~ 160% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |                                                                                                                               |               |               |                                                                        |  |
|                                       | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 105 ~ 135% rated output voltage<br>Protection type : Shut down o/p voltage, re-power on to recover                      |                                                                                                                               |               |               |                                                                        |  |
|                                       | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Shut down o/p voltage, re-power on to recover                                                                           |                                                                                                                               |               |               |                                                                        |  |
|                                       | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -30 ~ +70°C (Refer to "Derating Curve")                                                                                 |                                                                                                                               |               |               |                                                                        |  |
| ENVIRONMENT                           | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20% ~ 90% RH non-condensing                                                                                             |                                                                                                                               |               |               |                                                                        |  |
|                                       | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -40 ~ +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                                                 |                                                                                                                               |               |               |                                                                        |  |
|                                       | OPERATING ALTITUDE <span>Note.8</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3000 meters                                                                                                             |                                                                                                                               |               |               |                                                                        |  |
|                                       | SAFETY & EMC<br>(Note. 10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SAFETY STANDARDS                                                                                                        | IEC60601-1, TUV EN60601-1, ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22.2 No. 60601-1:14 - Edition 3, EAC TP TC 004 approved |               |               |                                                                        |  |
| ISOLATION LEVEL                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Primary-Secondary: 2xMOPP, Primary-Earth: 1xMOPP                                                                        |                                                                                                                               |               |               |                                                                        |  |
| WITHSTAND VOLTAGE <span>Note.9</span> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I/P-O/P:4KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC                                                                         |                                                                                                                               |               |               |                                                                        |  |
| ISOLATION RESISTANCE                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH                                                                              |                                                                                                                               |               |               |                                                                        |  |
| EMC EMISSION                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Parameter                                                                                                               | Standard                                                                                                                      |               |               | Test Level / Note                                                      |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Conducted emission                                                                                                      | En55011 (CISPR11), FCC PART 15 / CISPR22, CAN ICES-3(B)/NMB-3(B)                                                              |               |               | Class B                                                                |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Radiated emission                                                                                                       | EN55011 (CISPR11), 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                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EN60601-1-2, EN61204-3                                                                                                  |                                                                                                                               |               |               |                                                                        |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Parameter                                                                                                               | Standard                                                                                                                      |               |               | Test Level / Note                                                      |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ESD                                                                                                                     | EN61000-4-2                                                                                                                   |               |               | Level 4, 15KV air ; Level 4, 8KV contact                               |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RF field susceptibility                                                                                                 | EN61000-4-3                                                                                                                   |               |               | Level 3, 10V/m( 80MHz~2.7GHz )<br>Table 9, 9~28V/m( 385MHz~5.78GHz )   |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EFT bursts                                                                                                              | EN61000-4-4                                                                                                                   |               |               | Level 3, 2KV                                                           |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Surge susceptibility                                                                                                    | EN61000-4-5                                                                                                                   |               |               | Level 3, 1KV/Line-Line, 2KV/Line-FG                                    |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Conducted susceptibility                                                                                                | EN61000-4-6                                                                                                                   |               |               | Level 3, 10V                                                           |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Magnetic field immunity                                                                                                 | EN61000-4-8                                                                                                                   |               |               | Level 4, 30A/m                                                         |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Voltage dip, interruption                                                                                               | EN61000-4-11                                                                                                                  |               |               | 100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods |  |
|                                       | OTHERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MTBF                                                                                                                    | 368.5K hrs min. MIL-HDBK-217F(25°C)                                                                                           |               |               |                                                                        |  |
| DIMENSION                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 167*67*35mm (L*W*H)                                                                                                     |                                                                                                                               |               |               |                                                                        |  |
| PACKING                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.6Kg; 20pcs/13.0Kg/0.89CUFT                                                                                            |                                                                                                                               |               |               |                                                                        |  |
| CONNECTOR                             | PLUG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | See page 4~5 ; Other type available by customer requested                                                               |                                                                                                                               |               |               |                                                                        |  |
|                                       | CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | See page 4~5 ; Other type available by customer requested                                                               |                                                                                                                               |               |               |                                                                        |  |
| NOTE                                  | 1. All parameters are specified at 230VAC input, rated load, 25°C 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 0.1 $\mu$ f & 47 $\mu$ f 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. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.<br>7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.<br>8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>9. Optional for 1.5KVAC with BF rated.<br>10. 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> |                                                                                                                         |                                                                                                                               |               |               |                                                                        |  |

## Derating Curve

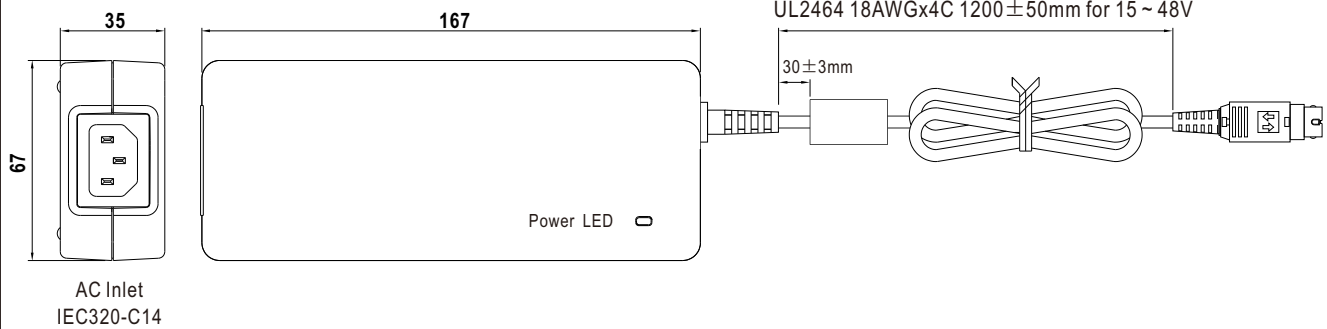


## Static Characteristics



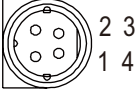
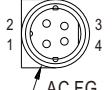
## Mechanical Specification

Case No. GS120A Unit:mm



## DC output plug

Standard plug: R7B

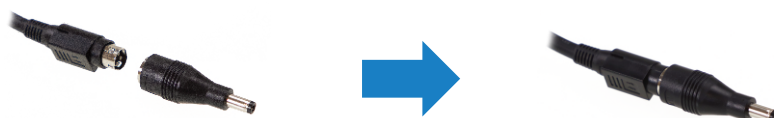
| R7B                                                                                                                                                                     |                                        | Pin Assignment                                                                                                                                               |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|   | 2 3<br>1 4<br>KYCON KPPX-4P equivalent | <br>AC FG<br>Outer shell connected to AC FG<br>-V not connected to AC FG | PIN NO. |
|                                                                                                                                                                         |                                        |                                                                                                                                                              | OUTPUT  |
|                                                                                                                                                                         |                                        |                                                                                                                                                              | 1 +Vo   |
|                                                                                                                                                                         |                                        |                                                                                                                                                              | 2 -Vo   |
|                                                                                                                                                                         |                                        |                                                                                                                                                              | 3 -Vo   |
|                                                                                                                                                                         |                                        |                                                                                                                                                              | 4 +Vo   |

◎ DC plug changeable through:

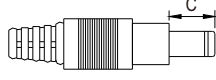
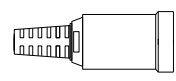
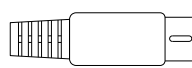
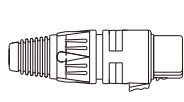
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

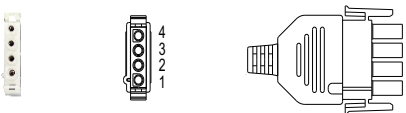
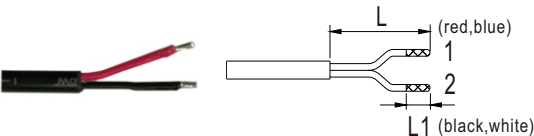
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

Example quick adapter accessory:



◎ Optional DC plug: (Available in customized cable or quick adapter)

| Tuning Fork Style                                                                                                                                                                                                                                                                                   | Type No. | A              | B      | C    | Quick Adapter Accessory                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------|------|-------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                     |          | OD             | ID     | L    |                                                       |
|   <br>(Straight)                                 | P1J      | 5.5            | 2.1    | 11.0 | Available for 15 ~ 48V<br>(Current rating: 7.5A max.) |
|                                                                                                                                                                                                                                                                                                     | P1M      | 5.5            | 2.5    | 11.0 |                                                       |
| Min. DIN 4 Pin with Lock (female)                                                                                                                                                                                                                                                                   | Type No. | Pin Assignment |        | None |                                                       |
|   <br>KYCON KPJX-CM-4S equivalent          | R7BF     | PIN No.        | Output |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 1              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 2              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 4              | +Vo    |      |                                                       |
| DIN 5 Pin (male)                                                                                                                                                                                                                                                                                    | Type No. | Pin Assignment |        | None |                                                       |
|                                            | R1B      | PIN No.        | Output |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 1              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 2              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 3              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 4              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 5              | +Vo    |      |                                                       |
| NEUTRIK XLR NC4FX equivalent                                                                                                                                                                                                                                                                        | Type No. | Pin Assignment |        | None |                                                       |
|                                            | MIC4     | PIN No.        | Output |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 1              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 2              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 4              | -Vo    |      |                                                       |
| MOLEX 39-01-2060 (4.2mm) equivalent                                                                                                                                                                                                                                                                 | Type No. | Pin Assignment |        | None |                                                       |
|   <br>FG not connected to output connector | C6P      | PIN No.        | Output |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 1              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 2              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 3              | +Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 4              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 5              | -Vo    |      |                                                       |
|                                                                                                                                                                                                                                                                                                     |          | 6              | -Vo    |      |                                                       |

| AMP 1-480702-0 (6.35mm) equivalent                                                                                                                                            | Type No.    | Pin Assignment |        | Quick Adapter<br>Accessory |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--------|----------------------------|
|                                                                                                                                                                               |             | PIN No.        | Output |                            |
| <br>FG not connected to output connector                                                     | C4P         | 1              | +Vo    | None                       |
|                                                                                                                                                                               |             | 2              | +Vo    |                            |
|                                                                                                                                                                               |             | 3              | -Vo    |                            |
|                                                                                                                                                                               |             | 4              | -Vo    |                            |
| Stripped and tinned leads                                                                                                                                                     | Type No.    | Pin Assignment |        |                            |
|                                                                                                                                                                               |             | PIN No.        | Output |                            |
| <br>Length of Land L1 by request<br>(MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm) | by customer | 1              | +Vo    | None                       |
|                                                                                                                                                                               |             | 2              | -Vo    |                            |

## ■ Installation Manual

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