



Energy Verified  
Rendement  
Énergétique Vérifié



EN60601-1 ANSI/AAMI ES60601-1 IEC60601-1 TPTC004



## 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 > 80 K hours
- Various DC plug quick adapter accessory available  
(Plug kit sold sperately, 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

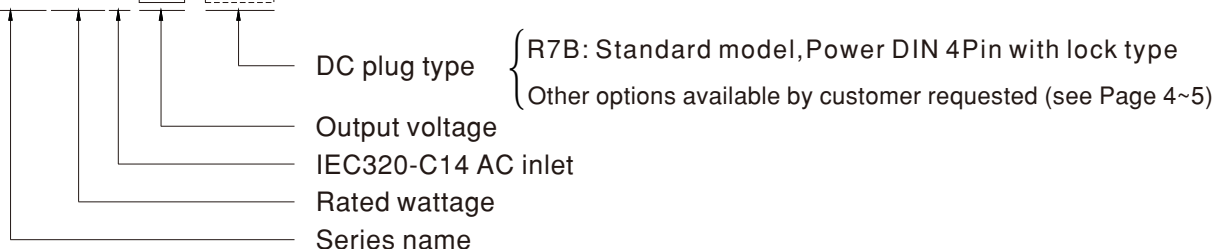
## Description

GSM220A is a highly reliable, 220W 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 94.5% and the extremely low no-load power consumption below 0.15W, GSM220A 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. GSM220A is approved with the international medical safety certificates.

## Model Encoding

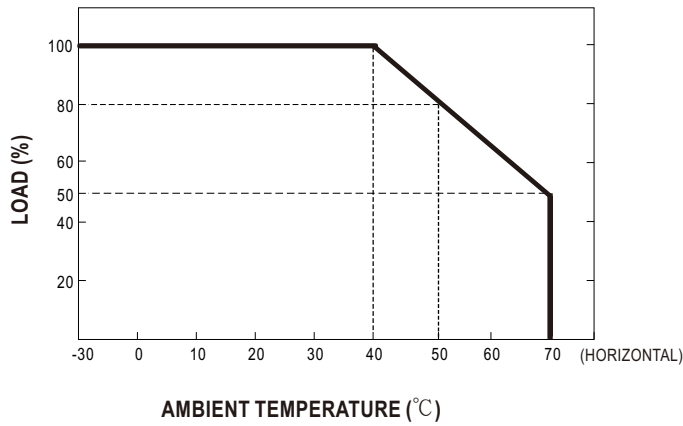
**GSM220A 12 - R7B**



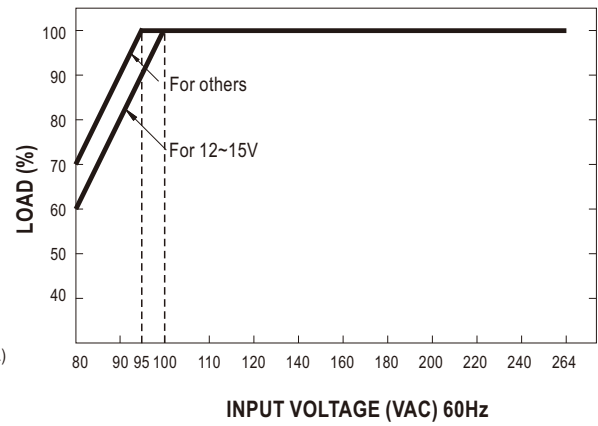
**SPECIFICATION**

| ORDER NO.                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GSM220A12-R7B                                                                                                                 | GSM220A15-R7B                                                    | GSM220A20-R7B | GSM220A24-R7B                                                          | GSM220A48-R7B |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------|------------------------------------------------------------------------|---------------|
| OUTPUT                     | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GSM220A12                                                                                                                     | GSM220A15                                                        | GSM220A20     | GSM220A24                                                              | GSM220A48     |
|                            | DC VOLTAGE <span>Note.2</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12V                                                                                                                           | 15V                                                              | 20V           | 24V                                                                    | 48V           |
|                            | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15A                                                                                                                           | 13.4A                                                            | 11A           | 9.2A                                                                   | 4.6A          |
|                            | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 ~ 15A                                                                                                                       | 0 ~ 13.4A                                                        | 0 ~ 11A       | 0 ~ 9.2A                                                               | 0 ~ 4.6A      |
|                            | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 180W                                                                                                                          | 201W                                                             | 220W          | 221W                                                                   | 221W          |
|                            | RIPPLE & NOISE (max.) <span>Note.3</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 80mVp-p                                                                                                                       | 80mVp-p                                                          | 120mVp-p      | 120mVp-p                                                               | 150mVp-p      |
|                            | VOLTAGE TOLERANCE <span>Note.4</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±5.0%                                                                                                                         | ±5.0%                                                            | ±4.0%         | ±3.0%                                                                  | ±2.0%         |
|                            | 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%                                                                  | ±2.0%         |
|                            | SETUP, RISE TIME <span>Note.6</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2000ms, 50ms / 230VAC      2000ms, 50ms / 115VAC at full load                                                                 |                                                                  |               |                                                                        |               |
|                            | HOLD UP TIME (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20ms / 230VAC      20ms / 115VAC at full load                                                                                 |                                                                  |               |                                                                        |               |
| INPUT                      | VOLTAGE RANGE <span>Note.7</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80 ~ 264VAC                                                                                                                   |                                                                  |               |                                                                        |               |
|                            | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47 ~ 63Hz                                                                                                                     |                                                                  |               |                                                                        |               |
|                            | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PF>0.91 / 230VAC      PF>0.98 / 115VAC at full load                                                                           |                                                                  |               |                                                                        |               |
|                            | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 90%                                                                                                                           | 90%                                                              | 92%           | 93.5%                                                                  | 94.5%         |
|                            | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4A / 115VAC      2A / 230VAC                                                                                                  |                                                                  |               |                                                                        |               |
|                            | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cold start 90A / 115VAC      110A / 230VAC                                                                                    |                                                                  |               |                                                                        |               |
|                            | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Earth leakage current < 115 $\mu$ A/264VAC , Touch current <100 $\mu$ A/264VAC                                                |                                                                  |               |                                                                        |               |
| PROTECTION                 | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 105 ~ 135% 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, recovers automatically after temperature goes down                                                     |                                                                  |               |                                                                        |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                               |                                                                  |               |                                                                        |               |
| ENVIRONMENT                | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -30 ~ +70°C (Refer to "Derating Curve")                                                                                       |                                                                  |               |                                                                        |               |
|                            | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 210.79K hrs min. MIL-HDBK-217F(25°C)                                                                                          |                                                                  |               |                                                                        |               |
|                            | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 210*85*46mm (L*W*H)                                                                                                           |                                                                  |               |                                                                        |               |
|                            | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.1Kg; 12pcs/14.2Kg/0.91CUFT                                                                                                  |                                                                  |               |                                                                        |               |
| 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."(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) |                                                                                                                               |                                                                  |               |                                                                        |               |

## Derating Curve

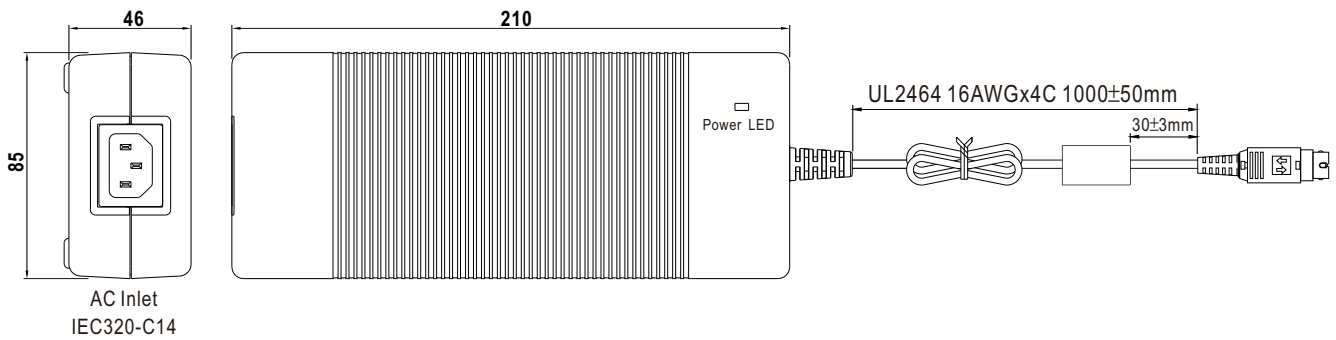


## Static Characteristics



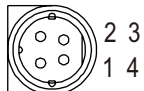
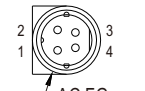
## Mechanical Specification

Case No. 961A Unit:mm



## DC output plug

☉ Standard plug: R7B

| R7B                                                                                 |                                                                                     | Pin Assignment                                                                                                                                               |         |        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|
|  |  | <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:

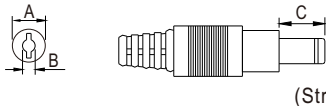
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

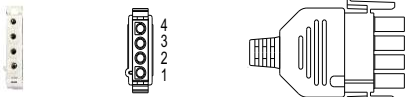
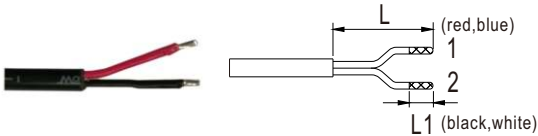
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

Example quick adapter accessory:



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

| Tuning Fork Style                                                                                                                                                                                               | Type No. | A<br>OD        | B<br>ID | C<br>L | Quick Adapter<br>Accessory                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|---------|--------|--------------------------------------------------|
|  <br>(Straight)                               | P1J      | 5.5            | 2.1     | 11.0   | Available for 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 |                            |
|  <p>FG not connected to output connector</p>                                                      | C4P         | 1              | +Vo    | None                       |
|                                                                                                                                                                                    |             | 2              | +Vo    |                            |
|                                                                                                                                                                                    |             | 3              | -Vo    |                            |
|                                                                                                                                                                                    |             | 4              | -Vo    |                            |
| Stripped and tinned leads                                                                                                                                                          | Type No.    | Pin Assignment |        |                            |
|                                                                                                                                                                                    |             | PIN No.        | Output |                            |
|  <p>Length of Land L1 by request<br/>(MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)</p> | by customer | 1              | +Vo    | None                       |
|                                                                                                                                                                                    |             | 2              | -Vo    |                            |

## ■ Installation Manual

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