



Наличие и актуальные цены на

**GST220A24-R7B**

<https://www.mean-well.ru/store/GST220A24-R7B/>



User's Manual



Video



## Features

- **Global certificates**
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- Built-in active PFC function
- No load power consumption < 0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design with -30~+70°C working temperature
- Fully enclosed plastic case
- LED indicator for power on
- **Various DC plug quick adapter accessory available**  
(Plug kit sold separately, please refer to : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf))
- 3 years warranty

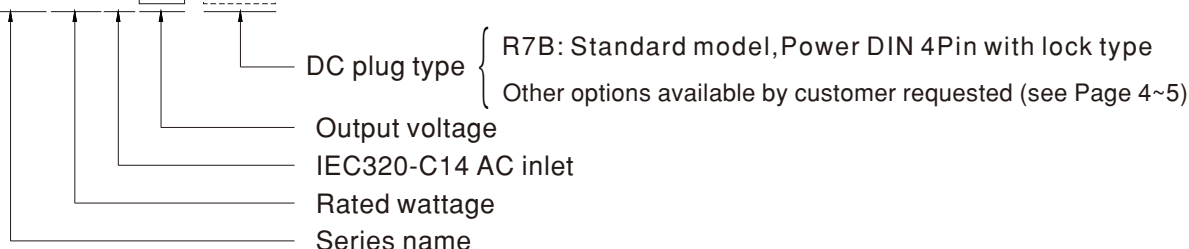
## Description

GST220A is a highly reliable, 220W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 85VAC to 264VAC. The entire series supplies different models with output voltages ranging between 12VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 94.5% and the extremely low no-load power consumption below 0.15W, GST220A is compliant with USA EISA 2007/DoE, Canada NRCAN, Australia and New Zealand MEPS, Korea K-MEPS, EU ErP and 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. GST220A is certified for the international safety regulations.

## Model Encoding

**GST 220A 12 -R7B**



## Applications

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

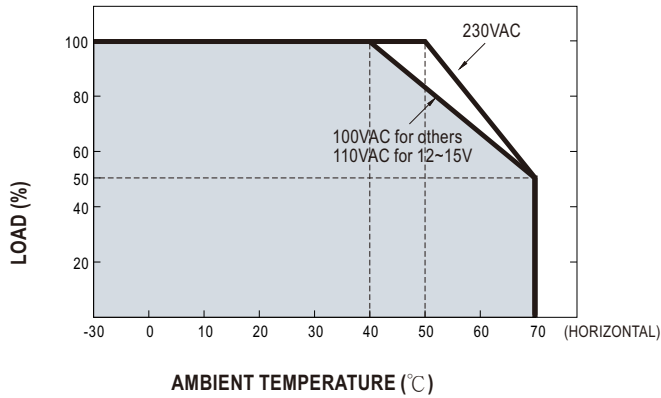
## GTIN CODE

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

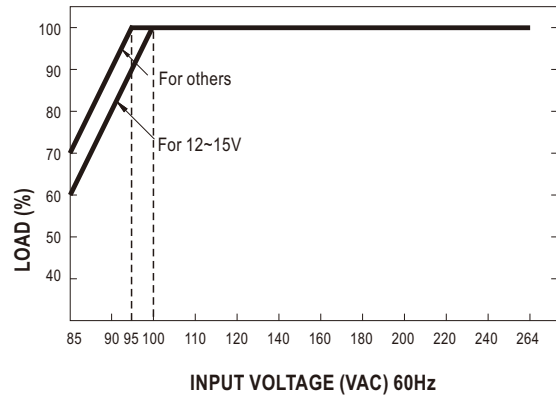
## SPECIFICATION

| ORDER NO.                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GST220A12-R7B                                                                                                                                                                                                                                                                                    | GST220A15-R7B                                                                                                        | GST220A20-R7B | GST220A24-R7B | GST220A36-R7B                                                                 | GST220A48-R7B |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|---------------|-------------------------------------------------------------------------------|---------------|
| OUTPUT                     | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | GST220A12                                                                                                                                                                                                                                                                                        | GST220A15                                                                                                            | GST220A20     | GST220A24     | GST220A36                                                                     | GST220A48     |
|                            | DC VOLTAGE <div>Note.2</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12V                                                                                                                                                                                                                                                                                              | 15V                                                                                                                  | 20V           | 24V           | 36V                                                                           | 48V           |
|                            | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15A                                                                                                                                                                                                                                                                                              | 13.4A                                                                                                                | 11A           | 9.2A          | 6.1A                                                                          | 4.6A          |
|                            | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0 ~ 15A                                                                                                                                                                                                                                                                                          | 0 ~ 13.4A                                                                                                            | 0 ~ 11A       | 0 ~ 9.2A      | 0 ~ 6.1A                                                                      | 0 ~ 4.6A      |
|                            | RATED POWER (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 180W                                                                                                                                                                                                                                                                                             | 201W                                                                                                                 | 220W          | 221W          | 219.6W                                                                        | 221W          |
|                            | RIPPLE & NOISE (max.) <div>Note.3</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 80mVp-p                                                                                                                                                                                                                                                                                          | 100mVp-p                                                                                                             | 120mVp-p      | 150mVp-p      | 200mVp-p                                                                      | 200mVp-p      |
|                            | VOLTAGE TOLERANCE <div>Note.4</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ± 5.0%                                                                                                                                                                                                                                                                                           | ± 5.0%                                                                                                               | ± 4.0%        | ± 3.0%        | ± 2.0%                                                                        | ± 2.0%        |
|                            | LINE REGULATION <div>Note.5</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ± 1.0%                                                                                                                                                                                                                                                                                           | ± 1.0%                                                                                                               | ± 1.0%        | ± 1.0%        | ± 1.0%                                                                        | ± 1.0%        |
|                            | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ± 5.0%                                                                                                                                                                                                                                                                                           | ± 5.0%                                                                                                               | ± 4.0%        | ± 3.0%        | ± 2.0%                                                                        | ± 2.0%        |
|                            | SETUP, RISE TIME <div>Note.6</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2000ms, 50ms / 230VAC      2000ms, 50ms / 115VAC at full load                                                                                                                                                                                                                                    |                                                                                                                      |               |               |                                                                               |               |
| HOLD UP TIME (Typ.)        | 20ms / 230VAC      20ms / 115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                  |                                                                                                                      |               |               |                                                                               |               |
| INPUT                      | VOLTAGE RANGE <div>Note.7</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 85 ~ 264VAC    120 ~ 370VDC                                                                                                                                                                                                                                                                      |                                                                                                                      |               |               |                                                                               |               |
|                            | 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%         | 93%                                                                           | 94.5%         |
|                            | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4A / 115VAC      2A / 230VAC                                                                                                                                                                                                                                                                     |                                                                                                                      |               |               |                                                                               |               |
|                            | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cold start    95A / 115VAC    120A / 230VAC                                                                                                                                                                                                                                                      |                                                                                                                      |               |               |                                                                               |               |
|                            | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.75mA / 240VAC                                                                                                                                                                                                                                                                                  |                                                                                                                      |               |               |                                                                               |               |
| 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 : Hiccup mode @ 10%load                                                                                                                                                                                                                       |                                                                                                                      |               |               |                                                                               |               |
|                            | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Shut down o/p voltage, recovers automatically after temperature goes down                                                                                                                                                                                                                        |                                                                                                                      |               |               |                                                                               |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                  |                                                                                                                      |               |               |                                                                               |               |
| ENVIRONMENT                | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -30 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                                                                                                                                           |                                                                                                                      |               |               |                                                                               |               |
|                            | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20% ~ 90% RH non-condensing                                                                                                                                                                                                                                                                      |                                                                                                                      |               |               |                                                                               |               |
|                            | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                                                                                                                           |                                                                                                                      |               |               |                                                                               |               |
|                            | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ± 0.03% / °C (0~50℃)                                                                                                                                                                                                                                                                             |                                                                                                                      |               |               |                                                                               |               |
|                            | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                                                                                                          |                                                                                                                      |               |               |                                                                               |               |
| SAFETY & EMC<br>(Note. 10) | SAFETY STANDARDS <div>Note. 8</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1 , BiS IS13252, KC K60950-1, EAC TP TC 004 approved (UL62368-1, CSA C22.2 No.62368-1, TUV EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1, AS/NZS 60950.1 for GST220A36-R7B) |                                                                                                                      |               |               |                                                                               |               |
|                            | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I/P-O/P: 3KVAC    I/P-FG: 2KVAC    O/P-FG:SHORT                                                                                                                                                                                                                                                  |                                                                                                                      |               |               |                                                                               |               |
|                            | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH                                                                                                                                                                                                                                                        |                                                                                                                      |               |               |                                                                               |               |
|                            | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Parameter                                                                                                                                                                                                                                                                                        | Standard                                                                                                             |               |               | Test Level / Note                                                             |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Conducted emission                                                                                                                                                                                                                                                                               | BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22<br>CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1<br>EAC TP TC 020,MSIP KN32 |               |               | Class B                                                                       |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Radiated emission                                                                                                                                                                                                                                                                                | BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22<br>CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1<br>EAC TP TC 020,MSIP KN32 |               |               | Class B                                                                       |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Harmonic current                                                                                                                                                                                                                                                                                 | BS EN/EN61000-3-2,GB9254                                                                                             |               |               | Class A                                                                       |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Voltage flicker                                                                                                                                                                                                                                                                                  | BS EN/EN61000-3-3                                                                                                    |               |               | -----                                                                         |               |
|                            | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BS EN/EN55035                                                                                                                                                                                                                                                                                    |                                                                                                                      |               |               |                                                                               |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Parameter                                                                                                                                                                                                                                                                                        | Standard                                                                                                             |               |               | Test Level /Note                                                              |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ESD                                                                                                                                                                                                                                                                                              | BS EN/EN61000-4-2                                                                                                    |               |               | Level 4, 15KV air; Level 4, 8KV contact                                       |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RF field susceptibility                                                                                                                                                                                                                                                                          | BS EN/EN61000-4-3                                                                                                    |               |               | Level 2, 3V/m                                                                 |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EFT bursts                                                                                                                                                                                                                                                                                       | BS EN/EN61000-4-4                                                                                                    |               |               | Level 2, 1KV                                                                  |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Surge susceptibility                                                                                                                                                                                                                                                                             | BS EN/EN61000-4-5                                                                                                    |               |               | Level 3, 1KV/Line-Line , 2KV/Line-FG                                          |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Conducted susceptibility                                                                                                                                                                                                                                                                         | BS EN/EN61000-4-6                                                                                                    |               |               | Level 2, 3V                                                                   |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Magnetic field immunity                                                                                                                                                                                                                                                                          | BS EN/EN61000-4-8                                                                                                    |               |               | Level 2, 3A/m                                                                 |               |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Voltage dips , interruption                                                                                                                                                                                                                                                                      | BS EN/EN61000-4-11                                                                                                   |               |               | > 95% dip 0. 5 periods, 30% dip 25 periods,<br>>95% interruptions 250 periods |               |
| OTHERS                     | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2006.1K hrs min.    Telcordia SR-332 (Bellcore) ; 209.4K hrs min.    MIL-HDBK-217F (25℃)                                                                                                                                                                                                         |                                                                                                                      |               |               |                                                                               |               |
|                            | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 210*85*46mm (L*W*H)                                                                                                                                                                                                                                                                              |                                                                                                                      |               |               |                                                                               |               |
|                            | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.1Kg; 12pcs/14.2Kg/0.81CUFT                                                                                                                                                                                                                                                                     |                                                                                                                      |               |               |                                                                               |               |
| 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℃ 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 μ F & 47 μ 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 voltage. Please check the derating curve for more details.<br>8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                                                                                                                                                                  |                                                                                                                      |               |               |                                                                               |               |

### Derating Curve



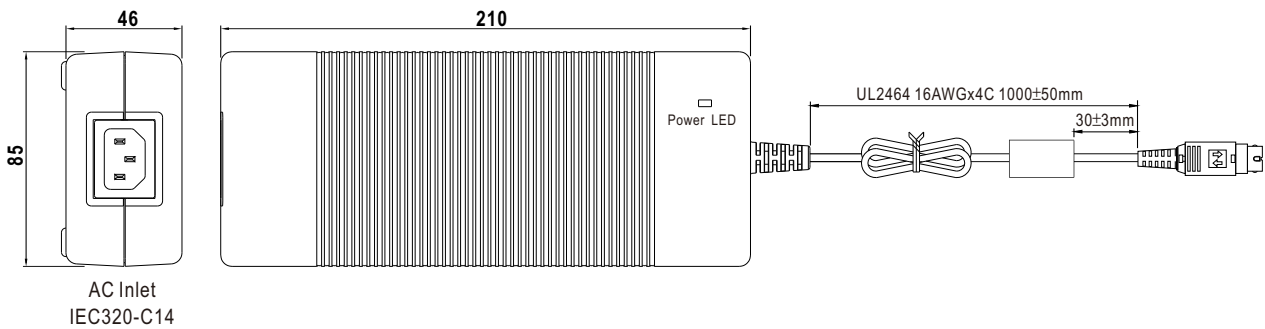
### Static Characteristics



### Mechanical Specification

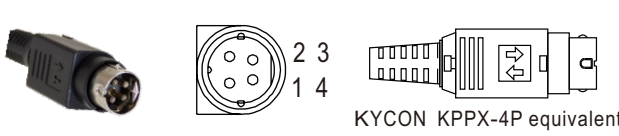
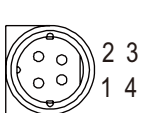
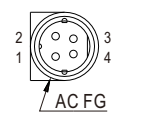
(Unit: mm , tolerance  $\pm 1$ mm)

Case No. 961A



### DC output plug

☉ Standard plug: R7B

| R7B                                                                                 |                                                                                     | Pin Assignment                                                                       |         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
|  |  |  | PIN NO. |
|                                                                                     |                                                                                     |                                                                                      | 1       |
|                                                                                     |                                                                                     |                                                                                      | 2       |
|                                                                                     |                                                                                     |                                                                                      | 3       |
|                                                                                     |                                                                                     |                                                                                      | OUTPUT  |
|                                                                                     |                                                                                     |                                                                                      | +Vo     |
|                                                                                     |                                                                                     |                                                                                      | -Vo     |
|                                                                                     |                                                                                     |                                                                                      | -Vo     |

◎ DC plug changeable through:

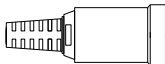
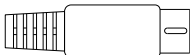
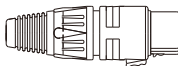
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

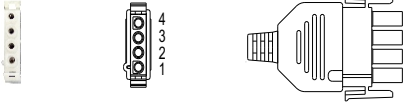
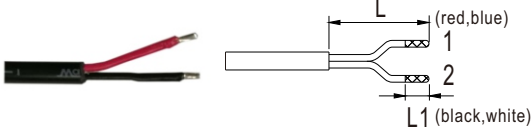
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

Example quick adapter accessory:



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

| Tuning Fork Style                                                                                                                                                                                                                                                                                   | Type No. | A              | B      | C    | Quick Adapter<br>Accessory                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------|------|--------------------------------------------------|
|                                                                                                                                                                                                                                                                                                     |          | OD             | ID     | L    |                                                  |
|   <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 |        |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output |      |                                                  |
|   <br>KYCON KPJX-CM-4S equivalent          | R7BF     | 1              | +Vo    | None |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 2              | -Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 4              | +Vo    |      |                                                  |
| DIN 5 Pin (male)                                                                                                                                                                                                                                                                                    | Type No. | Pin Assignment |        |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output |      |                                                  |
|                                            | R1B      | 1              | -Vo    | None |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 2              | -Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 3              | +Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 4              | -Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 5              | +Vo    |      |                                                  |
| NEUTRIK XLR NC4FX equivalent                                                                                                                                                                                                                                                                        | Type No. | Pin Assignment |        |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output |      |                                                  |
|                                            | MIC4     | 1              | +Vo    | None |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 2              | +Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 3              | -Vo    |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 4              | -Vo    |      |                                                  |
| MOLEX 39-01-2060 (4.2mm) equivalent                                                                                                                                                                                                                                                                 | Type No. | Pin Assignment |        |      |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | PIN No.        | Output |      |                                                  |
|   <br>FG not connected to output connector | C6P      | 1              | +Vo    | None |                                                  |
|                                                                                                                                                                                                                                                                                                     |          | 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)<br/>( NOTE: The wire color is for reference only,<br/>please refer to the actual product)</p> | by customer | 1              | +Vo    | None                       |
|                                                                                                                                                                                                                                                                              |             | 2              | -Vo    |                            |

## ■ Installation Manual

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