



Наличие и актуальные цены на

**GC120A24-R7B**

<https://www.mean-well.ru/store/GC120A24-R7B/>



### Features :

- Charger for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 2 stage charging characteristic
- Universal AC input / Full range
- Built-in active PFC function, PF>0.97
- No load power consumption<0.5W
- 3 pole AC inlet IEC320-C14
- Class I power ( with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- Approvals: UL / PSE / TUV / EAC / CB / FCC / CE / UKCA
- 2 years warranty

User's Manual



Video



### GTIN CODE

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


(for GC120Axx-AD1 only)

BS EN/EN62368-1 TPTC004 IEC62368-1

| ORDER NO.                          | OUTPUT CONNECTOR   | SAFETY                                |
|------------------------------------|--------------------|---------------------------------------|
| GC120Axx-R7B (standard model)      | 4pin power din     | TUV / CB / FCC / CE / UKCA / EAC      |
| GC120Axx-AD1 (standard model)      | Anderson connector | UL / TUV / CB / FCC / CE / UKCA / EAC |
| GC120Axx-□ xx=12,24,48 ; □=R7B,AD1 |                    |                                       |

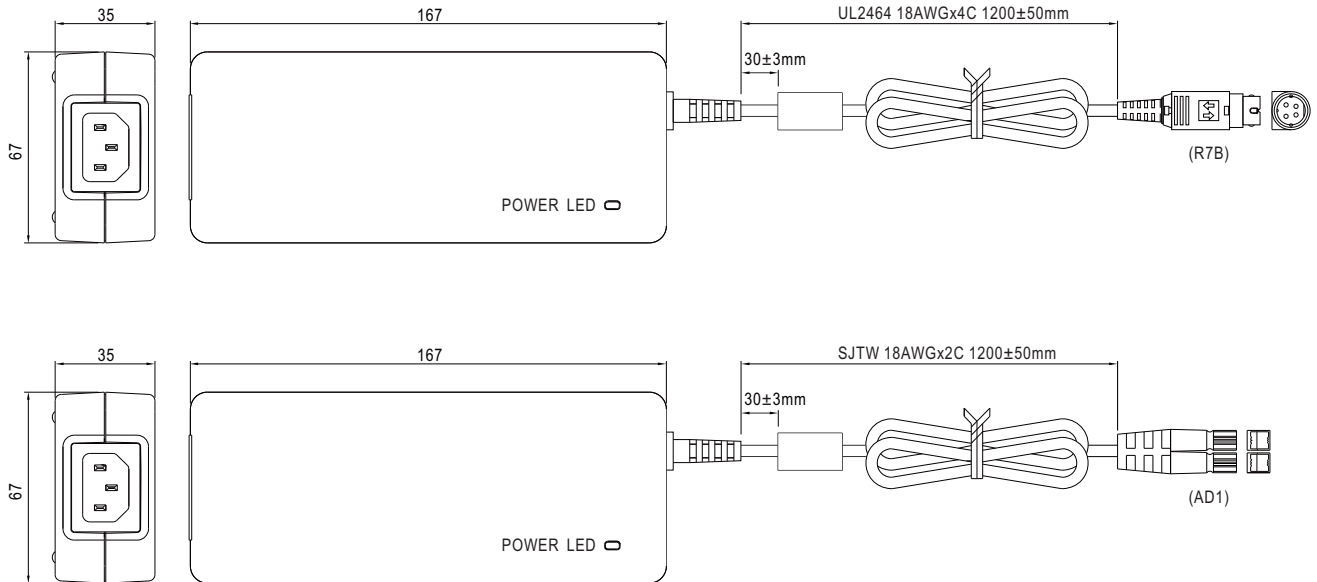
### SPECIFICATION

| ORDER NO.                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GC120A12-□                                                                                                                          | GC120A24-□ | GC120A48-□ |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| OUTPUT                    | SAFETY MODEL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GC120A12                                                                                                                            | GC120A24   | GC120A48   |
|                           | DC VOLTAGE (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13.6V                                                                                                                               | 27.2V      | 54.4V      |
|                           | RECOMMENDED BATTERY CAPACITY<br>Note.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 40 ~ 100Ah                                                                                                                          | 20 ~ 65Ah  | 10 ~ 35Ah  |
|                           | CONTINUOUS OUTPUT CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.5A                                                                                                                                | 4.42A      | 2.21A      |
|                           | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 102W                                                                                                                                | 120.2W     | 120.2W     |
|                           | LED INDICATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Charging(CC) : RED      Floating charging(CV) : GREEN                                                                               |            |            |
| INPUT                     | VOLTAGE RANGE      Note.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85 ~ 264VAC    120 ~ 370VDC                                                                                                         |            |            |
|                           | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47 ~ 63Hz                                                                                                                           |            |            |
|                           | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PF>0.97 / 230VAC      PF>0.99 / 115VAC at full load                                                                                 |            |            |
|                           | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 86.5%                                                                                                                               | 90%        | 91%        |
|                           | AC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.4A / 115VAC      0.7A / 230VAC                                                                                                    |            |            |
|                           | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70A / 230VAC                                                                                                                        |            |            |
| PROTECTION                | LEAKAGE CURRENT(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.75mA / 240VAC                                                                                                                     |            |            |
|                           | OVERLOAD      Note.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 90 ~ 110% rated output power<br>Protection type : Constant current limiting recovers automatically after fault condition is removed |            |            |
|                           | SHORT CIRCUIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Protection type : Hiccup mode, recovers automatically after fault condition is removed                                              |            |            |
|                           | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14 ~ 16.5V                                                                                                                          | 29 ~ 33V   | 59 ~ 69V   |
|                           | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100℃ ± 10℃ (RTH2) detect on inside ambient temperature<br>Protection type : Shut down o/p voltage, re-power on to recover           |            |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                     |            |            |
| ENVIRONMENT               | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -30 ~ +70℃ (Refer to "Derating Curve")                                                                                              |            |            |
|                           | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20% ~ 90% RH non-condensing                                                                                                         |            |            |
|                           | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -40 ~ +85℃, 10 ~ 95% RH                                                                                                             |            |            |
|                           | 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. 6) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UL1012 (FOR GC120AXX-AD1 Only), TUV BS EN/EN62368-1, PSE J60950-1, EAC TP TC 004 approved                                           |            |            |
|                           | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I/P-O/P: 3KVAC                                                                                                                      |            |            |
|                           | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH                                                                                            |            |            |
|                           | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliance to BS EN/EN55032 class B, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)/NMB-3(B), BS EN/EN61000-3-2,3, EAC TP TC 020      |            |            |
| OTHERS                    | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020                                    |            |            |
|                           | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2707.9K hrs min.    Telcordia SR-332 (Bellcore) ; 400.5K hrs min.    MIL-HDBK-217F (25℃)                                            |            |            |
|                           | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 167*67*35mm (L*W*H)                                                                                                                 |            |            |
| CONNECTOR                 | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.62Kg; 20pcs/13.4Kg/0.95CUFT                                                                                                       |            |            |
|                           | PLUG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | See page 2 ; Other type available by customer requested                                                                             |            |            |
| NOTE                      | CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | See page 2 ; Other type available by customer requested                                                                             |            |            |
|                           | 1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details.<br>2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>3. This is MeanWell's suggested range, please consult your battery manufacturer for their suggestions about maximum charging current limitation.<br>4. Derating may be needed under low input voltage. Please check the derating curve for more details.<br>5. Constant current operation region is within 50~100% rated output voltage.<br>6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.(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>7. 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>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                     |            |            |

## Mechanical Specification

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

Case No.947A



## Plug Assignment

DC output connector

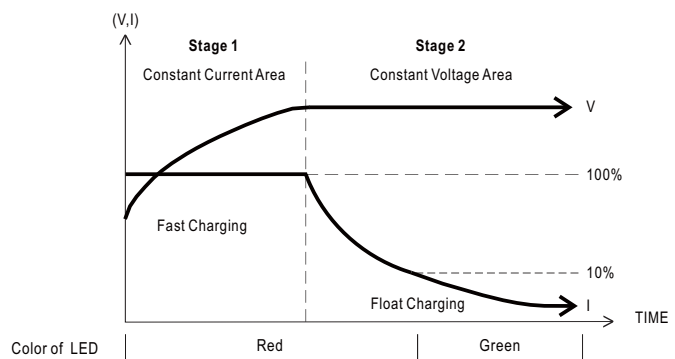
| R7B<br>(KYCON KPP-4S or equivalent) |         |        |
|-------------------------------------|---------|--------|
|                                     | PIN NO. | OUTPUT |
| 1,4                                 | 1,4     | +V     |
| 2,3                                 | 2,3     | -V     |

AC FG

-V connected to AC FG

| AD1<br>[ housing: Anderson 1327FP(red), 1327G6FP(black)<br>contacts: Anderson 261G2 (45A) or equivalent ] |           |
|-----------------------------------------------------------------------------------------------------------|-----------|
| Red(+V)                                                                                                   | Black(-V) |

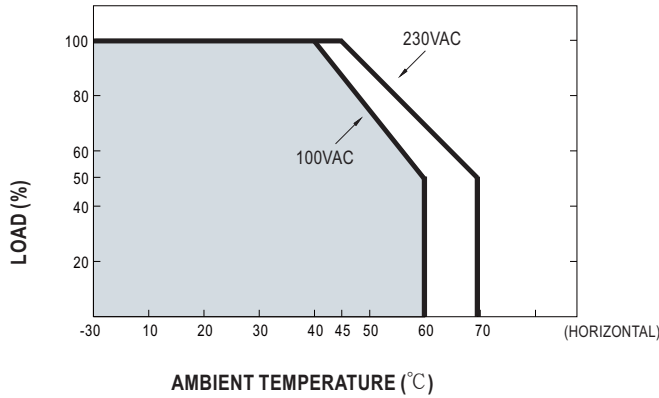
## Charging Curve



| Model    | Suggested Battery capacity |
|----------|----------------------------|
| GC120A12 | 40-100Ah                   |
| GC120A24 | 20-65Ah                    |
| GC120A48 | 10-35Ah                    |

Suitable for lead-acid batteries (flooded, Gel and AGM)  
and Li-ion batteries (lithium iron and lithium manganese)

■ Derating Curve



■ Static Characteristics

