



■ Features :

- 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: TUV / UL / CB / FCC / CE
- 2 years warranty



(for GC120Axx-AD1 only)



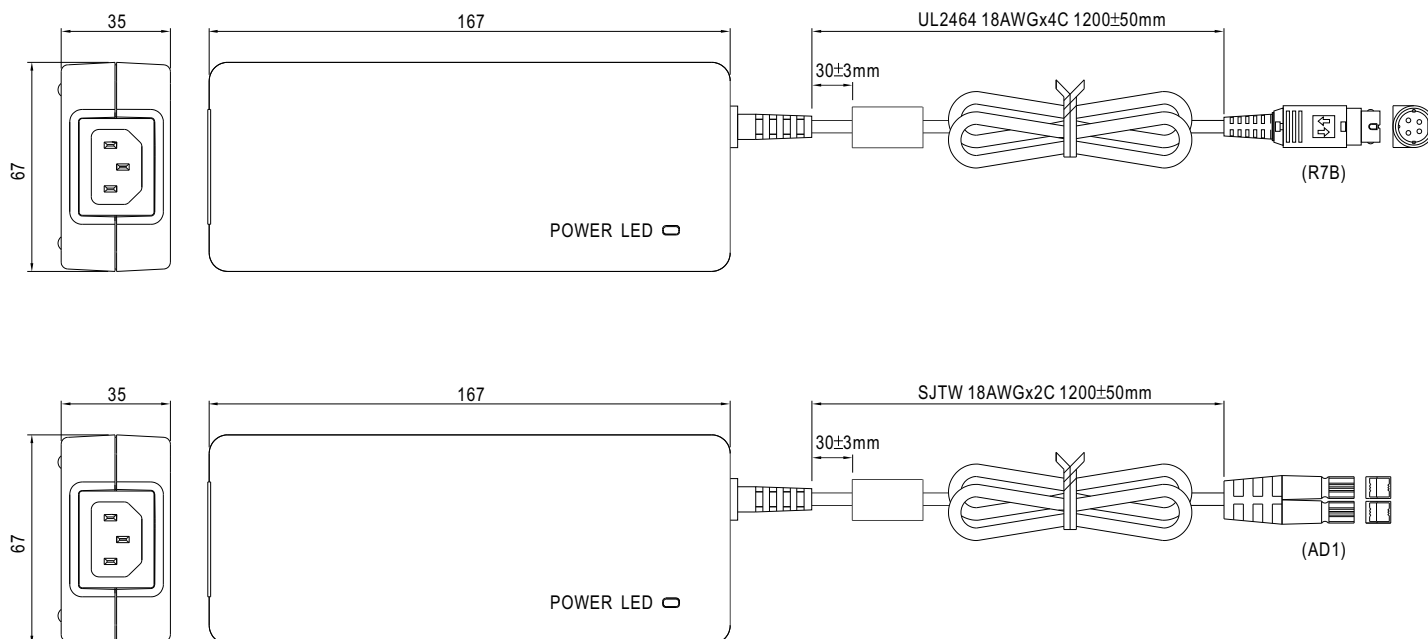
| ORDER NO. | OUTPUT CONNECTOR | SAFETY |
|------------------------------------|--------------------|--------------------------|
| GC120Axx-R7B (standard model) | 4pin power din | TUV / CB / FCC / CE |
| GC120Axx-AD1 (optional model) | Anderson connector | UL / TUV / CB / FCC / CE |
| GC120Axx-□ xx=12,24,48 ; □=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 Note.2 | 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.3 | 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 | | |
| | LEAKAGE CURRENT(max.) | 0.75mA / 240VAC | | |
| PROTECTION | OVERLOAD Note.4 | 90 ~ 110% rated output power | | |
| | | 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 |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | |
| ENVIRONMENT | OVER TEMPERATURE | 100°C ±10°C (RTH2) detect on inside ambient temperature | | |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | |
| | WORKING TEMP. | -30 ~ +70°C (Refer to output load derating curve) | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | |
| | TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | |
| SAFETY & EMC (Note. 5) | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | |
| | SAFETY STANDARDS | UL1012 (for GC120Axx-AD1 only), TUV EN60950-1 approved | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 class B, FCC PART 15 class B / CISPR22 class B | | |
| OTHERS | HARMONIC CURRENT | Compliance to EN61000-3-2,3 | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A | | |
| | MTBF | 400.7Khrs min. MIL-HDBK-217F(25°C) | | |
| | DIMENSION | 167*67*35mm (L*W*H) | | |
| CONNECTOR | PACKING | 0.62Kg; 20pcs/13.4Kg/0.8CUFT | | |
| | PLUG | See page 2 ; Other type available by customer requested | | |
| NOTE | CABLE | See page 2 ; Other type available by customer requested | | |
| | | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. This is MeanWell's suggested range, please consult your battery manufacturer for their suggestions about maximum charging current limitation. 3. Derating may be needed under low input voltage. Please check the derating curve for more details. 4. Constant current operation region is within 50~100% rated output voltage. 5. 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. | | |

Mechanical Specification

Case No.947A Unit:mm



Plug Assignment

DC output connector (standard)

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

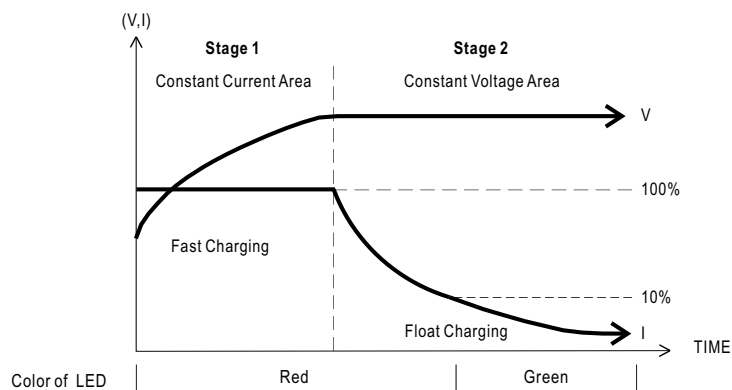
AC FG

-V connected to AC FG

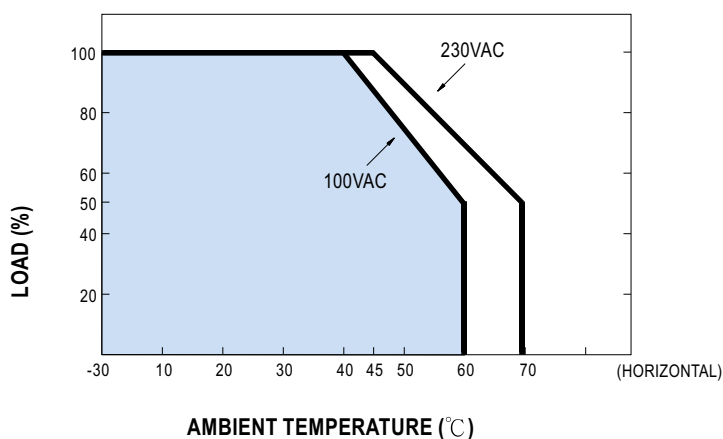
DC output connector (optional)

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

Charging Curve



Derating Curve



Static Characteristics

