GC30B Series

16.8 ~ 30W Power Adaptor with Charging Function





Features

- Charger for lead-acid batteries (flooded, gel and AGM) and Li-ion batteries (lithium iron and lithium manganese)
- Universal AC input / Full range
- No load power consumption <1W
- 2 pole AC inlet IEC320-C8
- Constant Current and voltage (CC, CV mode)
- Cooling by free air convection
- · Class II power (without earth pin)
- · Suitable for continue load
- For high surge current equipment
- Protections: Short circuit/Overload/Over voltage/ Over Temperature
- Fully enclosed plastic case
- 2 colour LED indicator for charging status
- · High Reliability
- 2 years warranty



Specification

| INPUT | Voltage | 90 ~ 264VAC | 127 ~ 370VDC | | | | | |
|--------------|---|---|--|-------------|------------|--------------|------------|--------------|
| | Frequency | 47 ~ 63Hz | | | | | | |
| | Efficiency | 55% | 70% | 74% | 76% | 78% | 78% | 80% |
| | AC Current | 1A/100VAC | | | | | | |
| | Inrush Current | 40A / 230VAC | | | | | | |
| | Leakage Current | 0.25mA/240VAC | | | | | | |
| OUTPUT | MODEL No. | GC30B-0P1J | GC30B-1P1J | GC30B-11P1J | GC30B-2P1J | GC30B-4P1J | GC30B-5P1J | GC30B-6P1J |
| | DC Voltage | 4.2V | 5.6V | 7.2V | 8.4V | 14.3V | 16.8V | 28.6V |
| | Rated Current | 4A | 3.99A | 3A | 3A | 2.09A | 1.6A | 1.04A |
| | Current Range | 0 ~ 4A | 0 ~ 3.99A | 0 ~ 3A | 0 ~ 3A | 0 ~ 2.09A | 0 ~ 1.6A | 0 ~ 1.04A |
| | Rated Power | 16.8W | 22.38W | 21.6W | 25.2W | 30W | 27W | 30W |
| | Ripple & Noise | 50mVp-p | 50mVp-p | 80mVp-p | 80mVp-p | 100mVp-p | 100mVp-p | 150mVp-p |
| | Charging Voltage Range | 3.6 ~ 4.4V | 5 ~ 5.8V | 6.5 ~ 7.5V | 7.7 ~ 8.8V | 13.5 ~ 14.5V | 16 ~ 17V | 27.1 ~ 28.8V |
| | Line Regulation | ±1.0% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LED Indicator | Green LED ON <150 ~ 200mA < Red LED ON | | | | | | |
| | Set Up, Rise, Hold Up Time 200ms, 50ms, 16ms at full load | | | | | | | |
| PROTECTION | Over Load | 90 ~ 110% Constant current mode and over 300% pulsing mode | | | | | | |
| | 0701 1000 | Protection Type: Constant current limiting, recovers automatically after fault condition is removed | | | | | | |
| | Over Voltage | 110 ~ 135% rated output voltage | | | | | | |
| | | Protection Type: Clamp by zener diode | | | | | | |
| | Over Temperature | IC1Tj130°C | | | | | | |
| | | Protection Type: Shut down o/p voltage, recovers automatically when temperature goes down | | | | | | |
| ENVIRONMENT | Working Temp. | 0 ~ +50°C (Refer to output load derating curve) | | | | | | |
| | Working Humidity. | -20% ~ 90% RH non-condensing | | | | | | |
| | Storage Temp Humidity. | -20 ~ +85°C, 10 ~ 95% RH | | | | | | |
| | Temp. Coefficient | ±0.03% / °C (0 ~ 50°C) | | | | | | |
| | Vibration | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | |
| SAFETY & EMC | Safety Standards | UL60950-1, CSA22.2, EN60950-1 approved | | | | | | |
| | Withstand Voltage | I/P-0/P: 3KVAC | | | | | | |
| | Isolation Resistance | I/P-0-P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | |
| | EMI Conduction & Radiation | Compliance to EN55014-1 class B, FCC part 15 Class B | | | | | | |
| | 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 | | | | | | |
| CONNECTOR | Plug | Standard type P1J: 2.1ϕ *5.5 ϕ *11mm, tuning fork centre positive for stock; Other types available by customers request | | | | | | |
| | Cable | Standard type 18A | Standard type 18Awg UL1185 6ft and 4ft for 4.2V ~ 8.4V output for stock; Other type available by customer's request. | | | | | |
| OTHERS | Packaging | 309g; 54pcs / 19k | g /carton | | | | | |

- 1. Modification for charger specification may be required for different battery specification. Please contact battery vendor for details.

- Modification in charges specified at 230VAC input, rated load, Z5°C 70% RH ambient.
 DC voltage: The output voltage set at point measure by plug terminal & 0% load.
 Ripple & Noise are measured at 220MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
 Constant charging voltage range is measured from 0% to 100% rated load.
 Line regulation is measured from low line at rated load.



