



CB123A Battery Charger



Features:

- Input: Single-phase 115 - 230 - 277 VAC
- Output: Battery charging 12 VDC; 3 A
- Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option)
- Automatic diagnostic of battery status. Charging curve IUoUo, constant voltage and current
- Switching technology, output voltage 14.4 VDC
- Three charging levels: Boost, Trickle, Recovery.
- Protected against short circuit, inverted polarity, over load.
- Signal output (contact free) for fault battery state
- Protection degree IP20 - DIN rail mountable

INPUT

BATTERY OUTPUT

GENERAL DATA

ENVIRONMENT

SAFETY & EMC

OTHERS

| Cat. No. | CB123A |
|--|--|
| Input Data Nominal Input Voltage (2 x VAC) Input Voltage range (VAC) Inrush Current (Vn and In Load) I2t Frequency Input Current Internal Fuse External Fuse (recommended) | 115 ~ 230 ~ 277 VAC 90 ~ 305 VAC 11 A ≤ 5 msec. 47 ~ 63 Hz ±6% 0.5 A ~ 115 VAC; 0.3A ~ 230 VAC 4 A 10 A (MCB curve B) |
| Battery Output (Battery Care) Boost charge (25°C) (typ. at I _n) Max. time Bust Charge (tpy. at I _n) Min. time Bust Charge (tpy. at I _n) Trickle charge (25°C) (typ. at I _n) Recovery Charge Charging. Max I _{batt} (I _n) Adjustable charging current I _{adj} (% I _n) Efficiency (50% - I _n) Quiescent Current Charging Curve automatic: IUoUo Detection of element in short circuit Short-circuit protection Over Load protection Over Voltage Output protection Jumper Configuration battery type (V cell) Ni-Cd (optional) | 14.4 VDC 15 h 70 min. 13.75 VDC 2 ~ 7 VDC 3 A ±5% 20 - 100 81% ≤5 mA 3 stage Yes Yes Yes Yes 2,23;2,25;2,27;2,3; 1,41-1,5 (20 elem.) |
| General Data Insulation voltage (In /Out) Insulation voltage (In / PE) Insulation voltage (Out / PE) Protection Class (EN/IEC 60529) Protection class Reliability: MTBF IEC 61709 Pollution Degree Environment Connection Terminal Blocks screw Type Dimensions (W-H-D) Weight | 3000 VAC 1605 VAC 500 VAC IP20 I, with PE connected > 300.000 hours 2 2,5mm (24~14AWG) 45x100x100 mm (1.78 x 3.94 x 3.94 in.) 0.30 Kg approx. (0.65 lbs.) |
| Climate Data Ambient temperature (operation) De Rating Ta > 50°C Ambient temperature Storage Humidity at 25°C no condensation Cooling | -25 - +70°C (-13~158°F) -2.5%(In) / °C -40 - +85°C (-40~185°F) 95% to 25°C Auto Convection |
| Norms and Certifications Conforming to: | IEC/EN 60335-2-29,EN60950/UL1950, Electrical safety, 89/336/EEC, EMC Directive, 2006/95/EC (Low Voltage), DIN41773 (Charging cycle), Emission:IEC 61000-6-4,Immunity: IEC 61000-6-2.CE |
| Signal Output (free switch contact) Main or Backup Power Low Battery Fault Battery | Yes Yes Yes |
| Type of Signal Output Contact Max. current can be switched (EN60947.4.1): Max. DC1: 30 VDC 1 A; AC1: 60 VAC 1A Min.1mA at 5 VDC | Resistive load Min load |

For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

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Technical Features

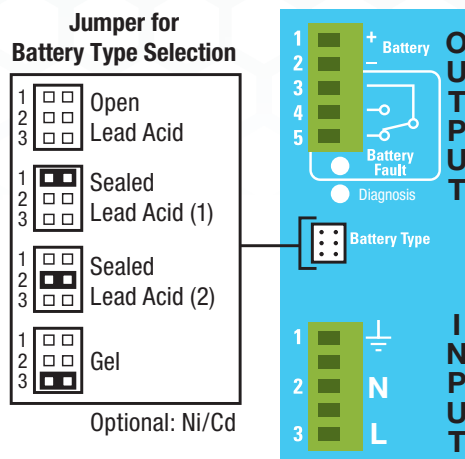
The CB series battery chargers are designed with advanced multi-stage battery charging method, completely automatic and suited to meet the most advanced requirements of battery manufacturers. The Battery Care concept is based on algorithms that implement rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. The Real Time Autodiagnostic system, monitoring battery faults such as, elements in short circuit, accidental reverse polarity connection, disconnection of the battery, they can easily be detected and removed by help of Blink Code of Diagnosis Led; during the installation and after sell. Each device is suited for all battery types, by means of jumpers it is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd(option). They are programmed for two charging levels, boost and trickle. A rugged casing with bracket for DIN rail mounting provide IP20 protection degree. They are extremely compact and cost-effective.

Charging

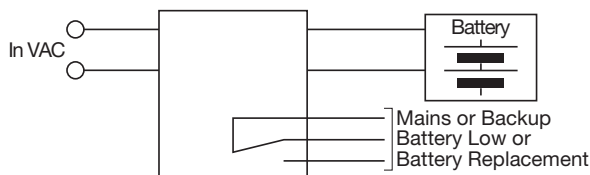
Automatic multi-stage charging and real time diagnostic allow fast recharge and recovery of deep discharged batteries, adding value and reliability to the system hosting. Type of charging is Voltages and current stabilized IUoUo. The state of charging battery and Autodiagnosis of the systems are identified by a flashing code on a Diagnosis LED and Fault Battery LED:

| | State | Diagnosis LED | Battery Fault LED |
|----------------|---------------------|---------------|-------------------|
| Charging Type | Trickle | 1 Blink/sec | OFF |
| | Boost | 2 Blink/sec | OFF |
| | Recovery | 5 Blink/sec | OFF |
| Auto diagnosis | Reverse polarity | 1 Blink | ON |
| | Battery No connect | 2 Blink | ON |
| | Element in Short C. | 3 Blink | ON |
| | Replace Battery | 5 Blink | ON |

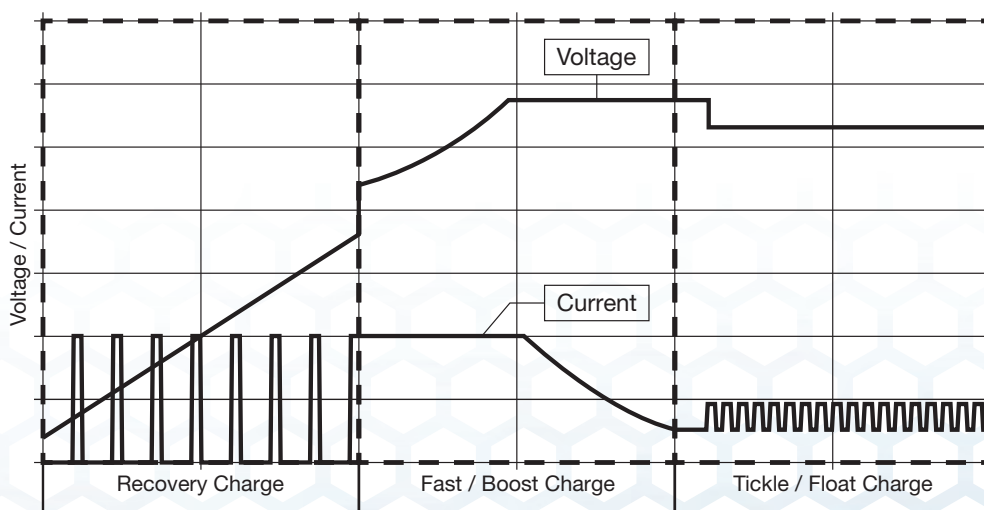
Wiring Terminals and Jumper Settings



Wiring Diagram



CB Charging Diagram



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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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