

CB12245A **Battery Charger**











Features:

277 VAC

- Input: Single-phase 115 230 277 VAC
- Output: Battery charging 12 VDC; 24 VDC (switch select)
- 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 / 28.8 VDC
- Four charging levels: Boost, Absorption, Trickle, Recovery.
- Protected against short circuit, reversed 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.	CB12245A
Input Data	
Nominal Input Voltage (2 x VAC)	115 ~ 230 ~
Input Voltage range (VAC)	90 ~ 305 VAC

Inrush Current (Vn and In Load) 12t \leq 16 A \leq 5 msec. Frequency $47 \sim 63 \text{ Hz } \pm 6\%$ Input Current 2.4 A - 115 VAC; 1.2 A 230 VAC Internal Fuse 4 A External Fuse (recommended) 10 A (MCB curve B)

Battery Output (Battery Care) 14.4 VDC / 28.8 VDC (jumper section) Boost charge (25°C) (typ. at In) Max. time Bust Charge (tpy. at In) Min. time Bust Charge (tpy. at In) 4 min. 13.75 VDC / 27.5 VDC Trickle charge (25°C) (typ. at In) Recovery Charge 2 ~ 7 VDC / 2 ~ 16 VDC Charging. Max Ibatt (In) 6A@12V / 5A@24V DC Efficiency (50% - In) 90% Charging current limiting ladi $20 - 100 \% I_n$

Quiescent Current ≤ 100 mA Charging Curve automatic: IUoUo 3 stage Detection of element in short circuit Yes Short-circuit protection Yes Over Load protection Yes Over Voltage Output protection Yes Jumper Configuration battery type 2.23;2,25;2,27;2,3;

(V cell) Ni-Cd (optional) 1,41-1,5 (20 elem.)

General Data Insulation voltage (In /Out) 3000 VAC Insulation voltage (In / PE) 1605 VAC Insulation voltage (Out / PE) 500 VAC Protection Class (EN/IEC 60529) IP20

Protection class Reliability: MTBF IEC 61709 > 300.000 hours Pollution Degree Environment Connection Terminal Blocks screw Type 2,5mm(24-14AWG)

45x105x100 mm (1.78 x 3.94 x 3.94 in.) Dimensions (W-H-D) Weight 0.3 Kg (0.65 lbs) approx.

Climate Data Ambient temperature (operation)

- 40C to +70C (-40F to +158F) De Rating Ta > 50°C - 2.5%(In) / °C Ambient temperature Storage -40 - +85°C (-40~185°F) Humidity at 25°C no condensation 95% to 25°C Cooling Auto Convention

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

I. with PE connected

Signal Output (free switch contact)

Main or Backup Power Yes Low Battery Yes **Fault Battery** 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

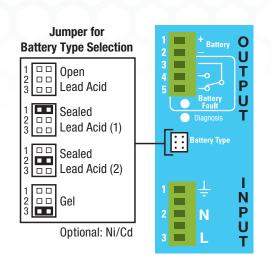
*Special order required

CB12245A Battery Charger

Altech Corp.

Technical Features

The CB series battery chargers are designed with advanced multistage battery charging method, completely automatic and suited to meet the most advanced requirements of battery manufacturers. The Battery Care concept is base 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.

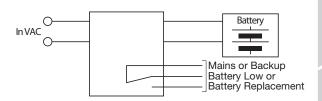


Charging

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	Trickle	1 Blink/sec	OFF
	Absorption	1 Blink/sec	0FF
Type	Boost	3 Blink/sec	0FF
	Recovery	5 Blink/sec	0FF
Auto	Reverse polarity	1 Blink	ON
diagnosis	Battery No connect	∏ 2 Blink	ON
	Element in Short C.	∭ 3 Blink	ON
	Replace Battery	∭ 5 Blink	ON

Wiring Diagram



SC Class 5 Series

DSA FIEX Series

PSB FIEX Series

95-5 Slim Series

CLOW Profile Series

as Industrial Series

PSC & W Series

CBI TYPE DC UPS SYSTEMS

CB Type Chargers

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Appendia

CB Charging Diagram

