

# CB12245A **Battery Charger**











### E353241

Max. current can be switched (EN60947.4.1): Max. DC1: 30 VDC 1 A; AC1: 60 VAC 1A

Min.1mA at 5 VDC

#### Features:

- 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**

115 ~ 230 ~ 277 VAC 90 ~ 305 VAC ≤ 16 A ≤ 5 msec. 47 ~ 63 Hz ±6% 2.4 A - 115 VAC; 1.2 A 230 VAC 4 A 10 A (MCB curve B)  14.4 VDC / 28.8 VDC (jumper section) 15 h 4 min. 13.75 VDC / 27.5 VDC 2 ~ 7 VDC / 2 ~ 16 VDC 6A@12V / 5A@24V DC 90% 20 - 100 % I <sub>n</sub> ≤ 100 mA 3 stage Yes Yes Yes Yes Yes Yes Yes 2.23;2,25;2,27;2,3; 1,41-1,5 (20 elem.)	
$90 \sim 305 \text{ VAC}$ $\leq 16 \text{ A} \leq 5 \text{ msec.}$ $47 \sim 63 \text{ Hz} \pm 6\%$ $2.4 \text{ A} - 115 \text{ VAC}; 1.2 \text{ A} 230 \text{ VAC}$ $4 \text{ A}$ $10 \text{ A} \text{ (MCB curve B)}$ $14.4 \text{ VDC} / 28.8 \text{ VDC (jumper section)}$ $15 \text{ h}$ $4 \text{ min.}$ $13.75 \text{ VDC} / 27.5 \text{ VDC}$ $2 \sim 7 \text{ VDC} / 2 \sim 16 \text{ VDC}$ $6A@12V / 5A@24V \text{ DC}$ $90\%$ $20 - 100 \% \text{ In}$ $\leq 100 \text{ mA}$ $3 \text{ stage}$ Yes Yes Yes Yes Yes Yes $2.23;2,25;2,27;2,3;$ $1,41-1,5 \text{ (20 elem.)}$	
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3000 VAC	
1605 VAC	
500 VAC	
IP20	
I. with PE connected	
> 300.000 hours	
2	
2,5mm(24-14AWG)	
45x105x100 mm (1.78 x 3.94 x 3.94 in.)	
0.3 Kg (0.65 lbs) approx.	
-25 - +70°C (-13~158°F)	
- 2.5%(ln) / °C	
-40 - +85°C (-40~185°F)	
95% to 25°C	
Auto Convention	
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	
Yes	
Yes Yes	
Yes Yes Yes	

Resistive load

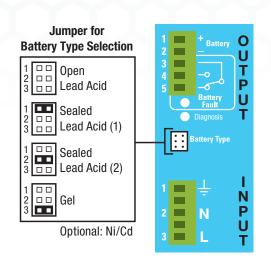
Min load

# 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.

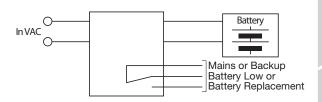


#### Charging

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

#### Wiring Diagram



SC Class 5 Series

DSA FIEX Series

PSB FIEX Series

os sim series

S Low Profile Serve

ac Industrial Series

os C&W Series

CBI TYPE

CB Type Chargers

. ccessories

vobeudix

#### **CB Charging Diagram**

