

CB2410A Battery Charger



External Fuse (recommended)







Features:

- Input: Single-phase 115 230 277 VAC
- Output: Battery charging 24 VDC; 10 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 28.8 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. **CB2410A**

Input Data Nominal Input Voltage (2 x VAC) 115 / 230 ~ 277 VAC $90 \sim 135 / 180 \sim 305 \text{ VAC}$ Input Voltage range (VAC) Inrush Current (Vn and In Load) I2t \leq 16 A \leq 5 msec. Frequency $47 \sim 63 \text{ Hz } \pm 6\%$ Input Current 3.3 A ~ 115 VAC; 2.2 A ~ 230 VAC Internal Fuse 6.3 A

Battery Output (Battery Care) 28.8 VDC Boost charge (25°C) (typ. at In) Max. time Bust Charge (tpy. at In) 15 h Min. time Bust Charge (tpy. at In) 1 min. 27.5 VDC Trickle charge (25°C) (typ. at In) Recovery Charge 2 ~ 18 VDC Charging. Max Ibatt (In) 10 A ±5% Efficiency (50% - I_n) 88% Charging current limiting ladi 20 - 100 % In Quiescent Current ≤5 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 I. with PE connected > 300.000 hours

Reliability: MTBF IEC 61709 Pollution Degree Environment Connection Terminal Blocks screw Type Dimensions (W-H-D)

Weight

2,5mm(24-14AWG)

16 A (MCB curve B)

100x115x135 mm (3.94 x 4.53 x 5.32 in) 0.85 Kg approx. (1.87 lbs.)

IEC/EN 60335-2-29,EN60950/UL1950, Electrical safety, 89/336/EEC, EMC Directive, 2006/95/EC (Low Voltage), DIN41773 (Charging cycle),

Climate Data

Conforming to:

Low Battery

-25 - +70°C (-13~158°F) Ambient temperature (operation) 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

Emission: IEC 61000-6-4, Immunity: IEC 61000-6-2.CE Signal Output (free switch contact) Main or Backup Power Yes

Fault Battery

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

Yes

Yes

CB2410A Battery Charger

Altech Corp.

Technical Features

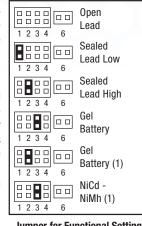
The CB series battery chargers are designed with advanced multistage battery charging method, completely automatic and suited to meet the most advanced requirements of battery manufacturers. The Battery Care concept is base on algorithms that implement rapid and automatic charging, battery charge optimization 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
Type	Boost	2 Blink/sec	0FF
	Recovery	5 Blink/sec	0FF
Auto	Reverse polarity	 	ON
diagnosis	Battery No connect	Л L2 Blink	ON
	Element in Short C.	∭ 3 Blink	ON
	Replace Battery	JMM L5 Blink	ON

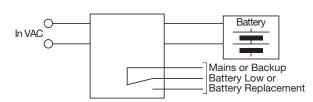
Jumper for **Battery Type Selection**



Jumper for Functional Setting

oumper for runotional cotting				
1 2 3 4 6	Battery Life Test On ¹			
1 2 3 4 6	Fast Charge Enable ²			

Wiring Diagram



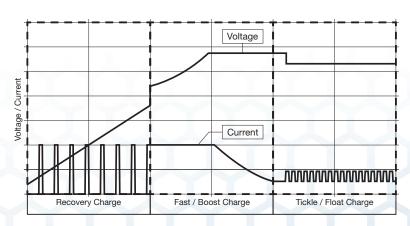
Jumper present: fast test enabled.

recharge the battery also when the voltage is close to zero with the

maximum power of the device

Jumper present: fast recovery charge enabled only for size 3. Possibility to

CB Charging Diagram



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Battery Chargers category:

Click to view products by Altech manufacturer:

Other Similar products are found below:

149116 2217331-1 CA0002 CH0011 CB1210A PS-034052 CH0015 GP U811+ 4X R6 2100MAH GP X411 AA/AAA + 4X R6 2700MAH RECYKO CB243A CB123A CB1235A CB2420A CB12245A HEP-600C-48 MC1 PLUS NEW MC2 MC1 BQ-CC55E VP4 PLUS DRAGON LCD MULTI CHARGER MINI-CHARGER 5V 2.1A PB320 PB50 PB550 + 4XAA 2700MAH VP2 POCKET-CHARGER + 4XAA 2100MAH PB-300P-12 VC2 79540-5015 MINI CHARGER + 2XAA 2100MAH ENC-360-12 ENC-360-24 ENC-360-48 HEP-600C-12 HEP-600C-24 CHFC3 ENC-120-12 RCP-1600-24 68532-4461 153117 BVL240600003N 68532-4462 BC7217 120 BVL062000003N 68532-4510 PB-120P-54P TSP-BCM48 1073100064-001