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a a	INPUT IN A N	Altech C	orp.'	-	
INF	PUT				

CB2420A Battery Charger Rohs 🔊 CE 🛄



- Input: Single-phase 115 277 VAC
- Output: Battery charging 24 VDC; 20 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	Cat. No.	CB2420A	
	Input Data Nominal Input Voltage (2 x VAC) Input Voltage range (VAC)	115 ~ 230 ~ 277 VAC 90 ~ 135 / 180 ~ 305 VAC	
BATTERY DUTPUT	Inrush Current (Vn and In Load) I2t Frequency Input Current Internal Fuse External Fuse (recommended)	$\leq 35 A \leq 5$ msec. $47 \sim 63 Hz \pm 6\%$ (115 ~ 230 VAC) 8 ~ 4.2 A 10 A 16 A (MCB curve B)	
GENERAL DATA	Battery Output (Battery Care)Boost charge (25°C) (typ. at In)Max. time Bust Charge (tpy. at In)Min. time Bust Charge (tpy. at In)Trickle charge (25°C) (typ. at In)Recovery ChargeCharging. Max Ibatt (In)Adjustable charging current (% In)Efficiency (50% - In)Charging current limiting IadjQuiescent CurrentCharging Curve automatic: IUOU0Detection of element in short circuitShort-circuit protectionOver Load protectionOver Voltage Output protectionPower Supply ModeJumper Configuration battery type(V cell) Ni-Cd (optional)	28.8 VDC 15 h 1 min. 27.5 VDC $2 \sim 18$ VDC $20 A \pm 5\%$ $20 - 100 \ H_n$ $\leq 5 mA$ 3 stage Yes Yes Yes Yes Yes Yes Yes Ye	
INVIRONMENT	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 4 mm(30–10AWG) 150x115x135 mm (5.91 x 4.53 x 5.32 in.) 1.5 Kg approx. (3.31 lbs)	
SAFETY & EMC	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 Convention	
OTHERS	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.

CB2420A Battery Charger

Altech Corp.

Technical Features

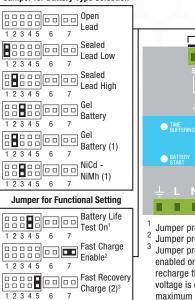
The CB series battery chargers are designed with advanced multi-stage battery charging method, completely automatic and suited to meet the most advanced requirements of battery manufacturers. The Battery Care concept is base on algorithms that implement rapid and automatic charging, battery charge optimization 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.

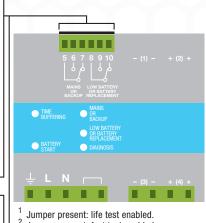
Charging

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
Туре	Boost	2 Blink/sec	0FF
	Recovery	5 Blink/sec	0FF
Auto	Reverse polarity	1 Blink	ON
diagnosis	Battery No connect	<u> </u>	ON
	Element in Short C.	M3 Blink	ON
	Replace Battery	MML 5 Blink	ON

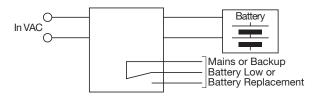
Jumper for Battery Type Selection



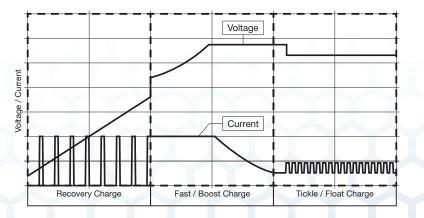


Jumper present: fast test enabled. Jumper present: fast recovery charge enabled only for size 3. Possibility to recharge the battery also when the voltage is close to zero with the maximum power of the device.

Wiring Diagram



CB Charging Diagram



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech: CB2420A