	CBI123A	Features:     Input: Single-phase 115 - 277 VAC
		Output Load: power supply 12 VDC; 3 A
1 2 3 4 -+-+	DC UPS	<ul> <li>Output: Battery charging 12 VDC; 3 A</li> <li>Suited for the following battery types:</li> </ul>
MEN ANTEN A		Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option
Altech Car		<ul> <li>Automatic diagnostic of battery status.</li> </ul>
All and All and	🐘 🔊 🔊 🕄 🐘	Switching technology, output voltage 10-14.4 VDC
Callesa Callesa Callesa Callesa Callesa Callesa Callesa Callesa		Three charging levels: Boost, trickle and recovery
A Constant	E333100	Protection degree IP20 - DIN rail mountable
NPUT	Cat. No.	CBI123A
	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 – 305 VAC
	Inrush Current (V <sub>n</sub> – I <sub>n</sub> nom. Load). I <sup>2</sup> t	$\leq$ 11 A $\leq$ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	2.8 ~ 1.3 A
Marka Marka	Internal fuse (factory replaceable)	4 A
UTPUT	External Fuse (recommended) MCB curve B	10 A
	Output Voltage (V <sub>n</sub> ) / Nominal Current (I <sub>n</sub> )	12 VDC / 3A
	Output Current In	3 A
	Efficiency (at 50% of rated current)	$\geq 90\%$
	Turn-On delay after applying input voltage	1 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
ROTECTION	Dissipation power load max	9 W
	Short-circuit protection	Yes
	Over Load protection	Yes
.OAD	Over Voltage Output protection	Yes (typ. 35 VDC)
OUTPUT	Over Temperature protection	Yes
	Output voltage (at In)	10 ~ 14.4 VDC
	Nominal current I <sub>load</sub>	1.1 x ln A ± 5%
	Continuous current (without battery) I <sub>load</sub> = I <sub>n</sub>	3 A
	Continuous current (with battery) $I_{load} = I_n + I_{batt}$	6 A
	Max. Current Output Load (Main) III <sub>load</sub> (4 sec.)	9 A max.
	Max. Current Output Load (Back Up) Iload (4 sec.)	6 A max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	∞: standard 5 min.: Require SW
	Protection alarm against total discharge	9-10V DC battery
OUTPUT	Threshold alarm for battery almost flat	10-11 V DC battery
	Boost charge (25 °C) (at I <sub>n</sub> )	14.4 VDC
	Max. time Bust Charge	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 $\circ$ C) (at I <sub>n</sub> )	13.75 VDC
	Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50 (10 elem.)
	Recovery Charge	2 ~ 9 VDC
	Charging current max Ibatt	3 A ± 5%
	Charging current limiting I <sub>adj</sub>	20 – 100 % / Ibatt
	Reverse battery protection	Yes
	Sulfated battery check	Yes by Jumper
	Detection of element in short circuit	Yes
	Quiescent Current	≤ 100 mA
	Charging Curve automatic: I <sub>UoUo</sub>	3 stage
THERS	Remote Input Control (RTCONN cable)	Boost /Trickle / Recovery
	Ambient temperature (operation)	-25 – +70°C
	De Rating Ta $> 50^{\circ}$ C	- 2.5%(ln) / °C
	Ambient temperature Storage	-40 - +85°C
	Humidity at 25 °C no condensation	95%
	Cooling	Auto convention
	MTBF	> 300.000 h (IEC 61709)

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

# CBI123A DC UPS

The Altech DC-UPS system is built to optimize power management. The available power is automatically allocated between load and battery, supplying power to the load is the first priority. For high inrush applications the charging power will reroute automatically to the load. In this case the maximum available current on the load output is two times the value of the device rated current.

The Battery Care concept based on algorithms that achieve rapid and automatic charging, battery optimization during charging time, flat batteries recovery and real time diagnostic The Real Time Auto-diagnostic system, monitors battery faults, sulfated battery, short circuit battery elements, reverse polarity connection, battery disconnect. This conditions are detected and identified by the number of blinks of the diagnosis Led.

### **Signal Output Contacts**

Main or Backup Power	Yes
Battery Power Low	Yes
Battery Fault	Yes
Max. Current Rating (Resistive Load)	1A 30 VDC/60 VAC
Minimum Permissible Current Rating	1mA @ 5 VDC

#### **RJ45 Connection Input / Output**

Temp. Comp. Battery (with ext. probe)	Yes - Optional
Remote monitoring display	Yes - Optional
Can Bus	No

## Environment

Insulation voltage (IN/OUT)	3000 VAC
Insulation voltage (input / ground)	1605 VAC
Insulation voltage (Output / ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Pollution Degree Environment	2
Connection TB, Screw Terminal	2,5 mm² (24-14AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	65x115x135 mm
2.56x4.53x5.32 in	
Weight (approx.)	0.6 kg (1.35 Lbs)

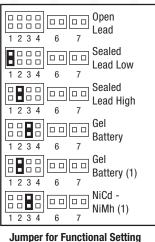
## Safety and EMC

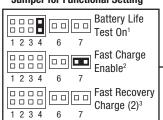
Battery charger standard compliance	IEC/EN 60335-2-29
Safety standards compliance:	EN60950 / UL1950 / CE
Fire Detection and alarm compliance	EN54-4
EMC Directive	89/336/EEC
Charging cycle	DIN41773
Emission	IEC 61000-6-4
Immunity	IEC 61000-6-2

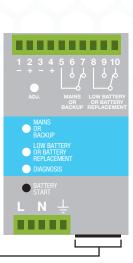
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge, Boost charge and Trickle charge. The continuous battery efficiency monitoring, reduces battery damage risk and allows a safe operation in permanent connection.

A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

#### **Jumper for Battery Type Selection**

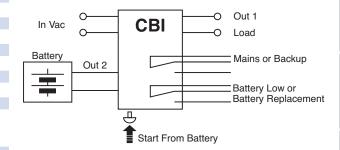


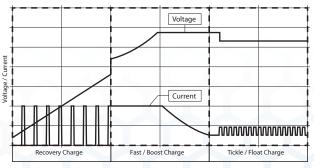




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 Jumper present: life test enabled.
 Jumper present: fast test enabled.
 Jumper present: fast recovery charge enabled only for size 3. Possibility to recharge the battery also when the voltage is close to zero with the maximum power of the device.





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