-	CBI123A	<ul><li>Features:</li><li>Input: Single-phase 115 - 277 VAC</li></ul>
A BRANDINGER	ODITZUA	Output Load: power supply 12 VDC; 3 A
A DESCRIPTION OF THE OWNER.		<ul> <li>Output: Battery charging 12 VDC; 3 A</li> </ul>
Contraction of the	DC UPS	<ul> <li>Suited for the following battery types:</li> </ul>
and the second		Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option)
Hand Street	_	Automatic diagnostic of battery status.
Series States	颵 🔊 🐼 CE 🛄	<ul> <li>Switching technology, output voltage 10-14.4 VDC</li> </ul>
		<ul> <li>Three charging levels: Boost, trickle and recovery</li> </ul>
	E353188	<ul> <li>Protection degree IP20 - DIN rail mountable</li> </ul>
and the second		
INPUT	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
	Internal fuse (factory replaceable)	4 A
	External Fuse (recommended) MCB curve B	10 A
OUTPUT		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
	Dissipation power load max	9 W
PROTECTION		
	Short-circuit protection	Yes
	Over Load protection	Yes
	Over Voltage Output protection	Yes (typ. 35 VDC)
LOAD	Over Temperature protection	Yes
OUTPUT		
and the second se	Output voltage (at I <sub>n</sub> )	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) I <sub>load</sub> (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
BATTERY	, , , , , , , , , , , , , , , , , , ,	,
OUTPUT	Threshold alarm for battery almost flat	10-11 V DC battery
001101	Poost shares $(25  ^{\circ}\text{C})$ (ct I)	14.4 VDC
	Boost charge (25 °C) (at I <sub>n</sub> ) Max. time Bust Charge	
	5	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 °C) (at $I_n$ )	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 I <sub>batt</sub>	$3A \pm 5\%$
	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	$\leq$ 5 mA
	Charging Curve automatic: $I_{UoUo}$	3 stage
OTHEDS		3 stage Boost /Trickle / Recovery
OTHERS	Charging Curve automatic: I <sub>UoUo</sub> Remote Input Control (RTCONN cable)	Boost /Trickle / Recovery
OTHERS	Charging Curve automatic: I <sub>UoUo</sub> Remote Input Control (RTCONN cable) Ambient temperature (operation)	Boost /Trickle / Recovery -25 – +70°C
OTHERS	Charging Curve automatic: $I_{UOUO}$ Remote Input Control (RTCONN cable) Ambient temperature (operation) De Rating Ta > 50°C	Boost /Trickle / Recovery -25 - +70°C - 2.5%(ln) / °C
OTHERS	Charging Curve automatic: $I_{UOU0}$ Remote Input Control (RTCONN cable)Ambient temperature (operation)De Rating Ta > 50°CAmbient temperature Storage	Boost /Trickle / Recovery -25 - +70°C - 2.5%(In) / °C -40 - +85°C
OTHERS	Charging Curve automatic: $I_{UoUo}$ Remote Input Control (RTCONN cable)Ambient temperature (operation)De Rating Ta > 50°CAmbient temperature StorageHumidity at 25 °C no condensation	Boost /Trickle / Recovery -25 - +70°C - 2.5%(ln) / °C
OTHERS	Charging Curve automatic: $I_{UOU0}$ Remote Input Control (RTCONN cable)Ambient temperature (operation)De Rating Ta > 50°CAmbient temperature Storage	Boost /Trickle / Recovery -25 - +70°C - 2.5%(ln) / °C -40 - +85°C

# 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.

Yes

### **Signal Output Contacts**

Main or Backup Power		
Battery Power Low		
Battery Fault		
Max. Current Rating (Resistive Load)		
Minimum Permissible Current Rating		

Yes Yes 1A 30 VDC/60 VAC 1mA @ 5 VDC

Yes - Optional

Yes - Optional

3000 VAC

1605 VAC

500 VAC

IP20

No

## **RJ45 Connection Input / Output**

Temp. Comp. Battery (with ext. probe) Remote monitoring display Can Bus

## Environment

Insulation voltage (IN/OUT) Insulation voltage (input / ground) Insulation voltage (Output / ground) Protection Class (EN/IEC 60529) Pollution Degree Environment Connection TB, Screw Terminal Protection class (Ground Connected) Dimensions (WxHxD) 2.56x4.53x5.32 in Weight (approx.)

2 2,5 mm² (24–14AWG) Class I 65x115x135 mm

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



