



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CBI243A DC UPS



Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 24 VDC; 3 A
- Output: Battery charging 24 VDC; 3 A
- Suited for the following battery types:
Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option)
- Automatic diagnostic of battery status.
- Switching technology, output voltage 22-28.8 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

INPUT

Cat. No.

CBI243A

Nominal Input Voltage	115 ~ 230 ~ 277 VAC
Voltage range	90 – 305 VAC
Inrush Current ($V_n - I_n$ nom. Load). I ² t	≤11 A ≤ 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

Output Voltage (V_n) / Nominal Current (I_n)	24 VDC / 3A
Output Current I_n	3 A
Efficiency (at 50% of rated current)	≥ 90 %
Turn-On delay after applying input voltage	1 sec. (max)
Start up with Strong Load (capacitive load)	Yes, Unlimited
Dissipation power load max	13 W

PROTECTION

Short-circuit protection	Yes
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 35 VDC)
Over Temperature protection	Yes

LOAD OUTPUT

Output voltage (at I_n)	22 ~ 28.8 VDC
Nominal current I_{load}	1.1 x I_n A ± 5%
Continuous current (without battery) $I_{load} = I_n$	3 A
Continuous current (with battery) $I_{load} = I_n + I_{batt}$	6 A
Max. Current Output Load (Main) I_{load} (4 sec.)	9 A max.
Max. Current Output Load (Back Up) I_{load} (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	19-20V DC battery
Threshold alarm for battery almost flat	20-21 V DC battery

BATTERY OUTPUT

Boost charge (25 °C) (at I_n)	28.8 VDC
Max. time Bust Charge	15 h
Min. time Bust Charge	1 min.
Trickle charge (25 °C) (at I_n)	27.5 VDC
Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50 (20 elem.)
Recovery Charge	2 ~ 16 VDC
Charging current max I_{batt}	3 A ± 5%
Charging current limiting I_{adj}	20 – 100 % / I_{batt}
Reverse battery protection	Yes
Sulfated battery check	Yes by Jumper
Detection of element in short circuit	Yes
Quiescent Current	≤ 5 mA
Charging Curve automatic: I_{UoUo}	3 stage
Remote Input Control (RTCONN cable)	Boost /Trickle / Recovery

OTHERS

Ambient temperature (operation)	-25 – +70°C
De Rating $T_a > 50^\circ\text{C}$	- 2.5%(I_n) / °C
Ambient temperature Storage	-40 – +85°C
Humidity at 25°C no condensation	95%
Cooling	Auto convection
MTBF (IEC 61709)	> 300.000 h

CBI243A

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 mm ² (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)

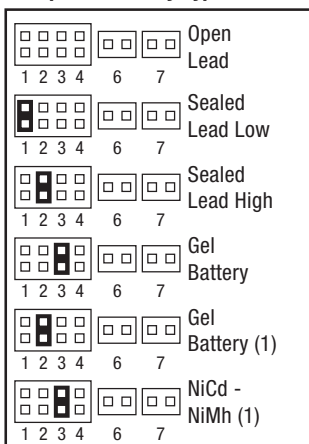
Safety and EMC

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

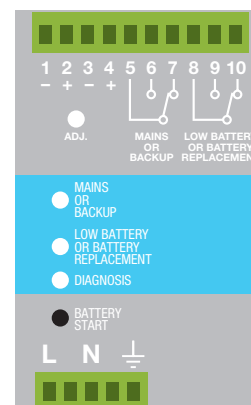
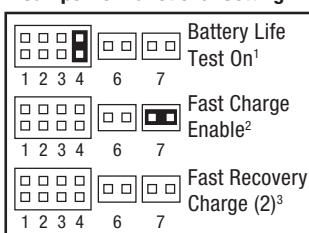
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge, 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



Jumper for Functional Setting



- 1 Jumper present: life test enabled.
- 2 Jumper present: fast test enabled.
- 3 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.

