CBI All in One
DC UPS Power Solutions

Everything and more!

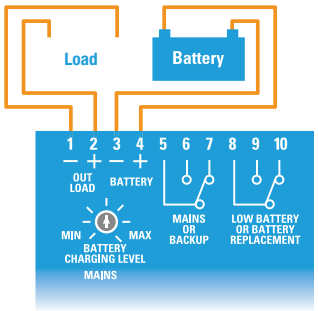
- More efficiency of the battery thanks to continuous control over time.
- More monitoring in main connection nodes: input, output load, battery.
- Event logging: number of battery charging cycles, charge cycles completed, aborted charge cycles, Ah charged, charging time, total number of transitions stand-by /back-up etc.
- Event Management: checking the load output, shutdown management of PCs (UPS function), RESET management of a generic equipment.
- Flexibility of use: customization of the entire charging curve of the battery, battery type setting, setting of the various time-out algorithms of charge, setting boost voltage, absorption, float, etc... configuration as DC-UPS or batteries charger, enabling power supply function.

Power Continuity

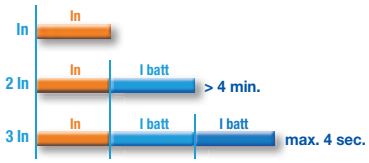
DC-UPS = Power Supply + Battery Charger + Back Up Module

Double Output, Optimized Power Management. Thanks to the DC-UPS units, it will be possible to smart-manage available power. It will be automatically allocated between load and battery. Supplying power to the load is the first priority of the unit; thus it is not necessary to double the power, and also the power available for the battery will go to the load if the load requires so.

Output Load: 12, 24, 48
Power Boost: In x 2 Continuous
In x 3 max 4 sec.



In Power Boost mode the maximum current on the load output is the 2 times the rated current (2 x In) in continuous operation and 3 times the rated current (3 x In) for max. 4 seconds.

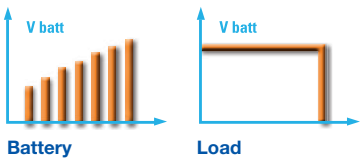


Time Buffering

Time buffering is enabled when in back-up mode. Buffering time setting is possible by operating the rotary switch on the front panel.

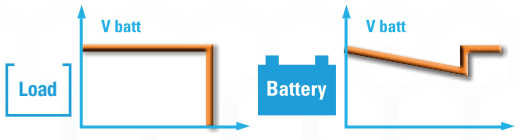
Smart Battery Management

Load output will not be affected by battery conditions. The DC-UPS insures continuous power supply to the load even in conditions of completely discharged batteries. The automatic multi-stage operation optimizes and adapts to the battery status. DC-UPS can recharge deeply discharged batteries even when their voltage is close to zero, thus allowing recharge and complete recovery of flat batteries.



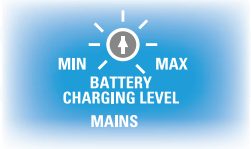
Avoid Deep Battery Discharge

In case of mains failure, the battery will supply the load until battery voltage reaches 1.5 Vpc (Volt per cell). Below this level the device automatically switches off to prevent deep discharge and battery damage.



Adjustable Maximum Battery Charging Current

The maximum battery charging current can be set from 10% to 100% of the device rated value.



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

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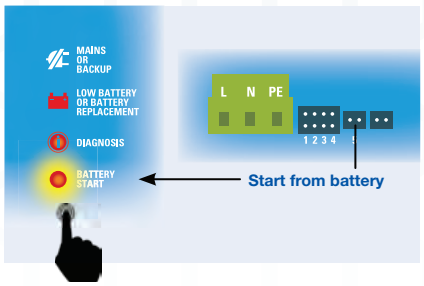
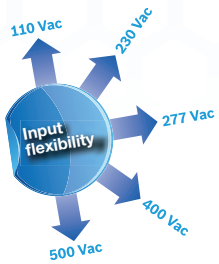
Power Continuity

Start from Battery without Main

If you want to restart the system while the mains is off, a battery restart function is available, via RTCONN cable connections, or via pushbutton in the front panel.





Wide input voltage range

Flexibility is given also by the wide range input voltage. The range of the devices accept input voltage 120 - 230 - 277 - 400 - 500 VAC.

One device for output 12 or 24 VDC

You can select the voltage between 12 or 24 VDC just before installing the device in your panel (available on selected products in the new Altech DC-UPS units).

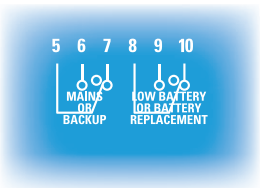
Connection & Monitoring

Monitor Signals

Clear definition of each system oper-ation, via LED indications and Relay contact:

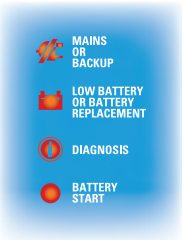
Contact Port signals, galvanic insulation

- Main or back-up signaling relay with voltage-free. NO-NC output terminals.
- Battery faulty signaling relay, relay with voltage-free. NO-NC output terminals.
- Flat battery signaling relay, relay with voltage-free. NO-NC output terminals.



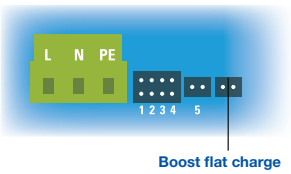
Display Signals by LED

- Input Main On Off
- Battery Fault
- Low battery (capacity less than 30%)
- Type of Battery charge mode
- Help through “blinking code” the diagnosis of the system



Driver Contact

Remote link for selection of trickle/ boost charging Via RTCONN remote connections cable it is possible to drive the devices from Boost - Bulk to Trickle - Float charge. It is also possible to permanently install a jumper for Boost - Bulk Charging.

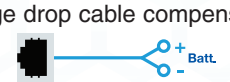


Accessories

All DC-UPS units can be made available with the following options by RJ45 or RJ11 connector:

Temperature sensor Probe, for ambient temperature compensation charging.

Voltage drop cable compensation.

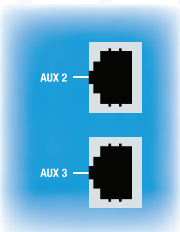


Battery Start UP cable.

Auxiliary output “Aux 2 and "Aux 3” MODBUS and CANBUS

MODBUS and CANBUS connection for Multimedia management, for connection to external displays and perform customized data monitoring. Connection to:

- Power View App
- Power View System
- Power Bus
- Power View Graphic
- Power View Bar Graph
- Power View Config



CBI All in One
DC UPS Power Solutions

These devices are completely automatic and can charge any kind of battery using factory pre-set charging curves suitable to the most common battery technologies: open lead acid, sealed lead acid, lead gel, Ni-Cd and Ni-MH. These devices are very flexible and can be customized to meet the needs of the user and the requirements of the application. After the installation, it is possible to carry out functional software updates just using any laptop computer. Doing so, your system can always be updated to changing requirements. The Battery Care concept is based on algorithms that implement rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. Battery faults such as battery sulfated, elements in short circuit, accidental reverse polarity connection can easily be detected, identified and removed. The All in one Series meet the highest standards of quality and insure high reliability, with MTBF values up to 300.000 hours.

Battery Care

One Device for All Battery Types

All devices are suitable to charge most batteries types thank to user selectable charging curves. They can charge open lead acid, sealed lead acid, Gel, Ni-Cd, Ni-MH, Li Ion batteries. It is possible to change or add other charging curves connecting the device to a portable PC. Charging mode is then completely automatic.

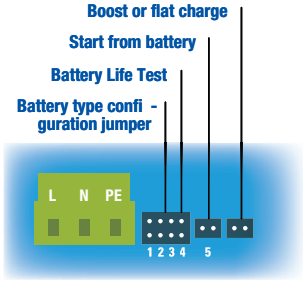
Open Lead Acid (factory preset):
Trickle 2.23 V
Boost 2.40 V

Sealed Lead Acid (1):
Trickle 2.25 V
Boost 2.40 V

AGM Sealed Lead Acid (2):
Trickle 2.27 V
Boost 2.40 V

Gel:
Trickle 2.30 V
Boost 2.40 V

Optional: Ni/Cd, LI-Ion

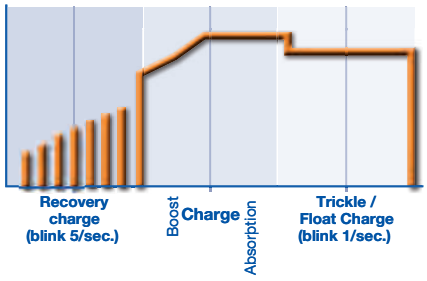


Boost or **float** charge.

Multi-Stage Charging / Four Charging Modes

Automatic multi-stage operation and real time diagnostic allows fast recharge and recovery of deeply discharged batteries, adding value and reliability to the system hosting the DC-UPS device. The type of charging is Voltages stabilized and Current stabilized IUoU. CBI battery chargers feature four charging modes, identified by a flashing code on a LED.

- Recovery (5 Blinks / sec) able to recharge batteries even when their voltage is close to zero.
- Boost - Bulk (2 Blinks / sec).
- Absorption (1 Blinks / sec).
- Trickle - Float (1 Blink / 2 sec).



Diagnosis of Battery and Device

All CBI devices support the user during installation and operation. A LED flashing sequence code allows to discriminate among various possible faults. Error conditions, LED Fault ON and LED Diagnosis flashing with sequence of:

- 1 flash = Reverse polarity, wrong battery voltage
- 2 flashes= Disconnected battery
- 3 flashes = Battery element in short circuit
- 4 flashes = Overload
- 5 flashes = Battery to be replaced (Internal impedance Bad or Bad battery wire connection).

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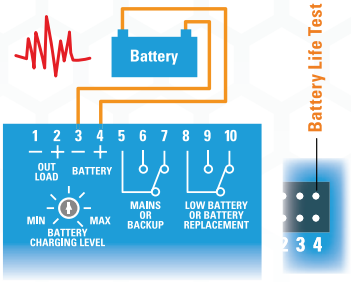
Battery Care

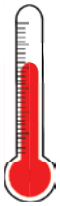
Battery Life Test

It guarantees battery reliability in time by continuously testing the internal impedance status. It avoids any possible risk of damages and grants also a permanent, reliable and safe connection of the battery to the power supply. The system, through a battery stimulation circuit with algorithms of evaluation of the detected parameter, is able to recognize sulfated batteries or batteries with a short-circuited cell.



Temperature Compensation

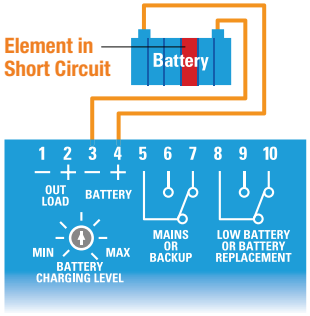
In special application like fire fighting equipment, you can recharge the battery also with the temperature compensation charging function, for the best condition of your battery in the temperature fluctuation. Use Port# CBI-RJTEMP for this application.



Diagnostic Checks

Check for accidental disconnection of the battery cables.
DC-UPS detects accidental disconnection and immediately switches off output power.

Battery not connected.
If the battery is not connected the battery output is disabled.



Test of wire connection impedance.
During trickle charge the resistance on the battery connection is checked every 20 sec. This to detect if the cable connection has been properly made.

Battery in open circuit or sulfated.
Every four hours DC-UPS tests of internal impedance, while in trickle charging mode.

Reverse polarity check.
If the battery it is connected with inverted polarity, DC-UPS is automatically protected.

Test of battery voltage connections.
Appropriate voltage check, to prevent connection of wrong battery types.

End of charge check.
When the battery it is completely full, the device automatically switches to trickle charging mode.

Check for battery cells in short circuit.
Thanks to specific testing algorithms, the DC-UPS recognize batteries with cells in internal short circuit.

Maximum Safety and Protection

The DC-UPS series is designed to provide safe operation and long power supply and battery life. The following protections are standard features:

- Outputs protected against short circuit and overload
- Outputs in conformity to SELV and PELV conditions
- High insulation between primary and secondary
- Protection against deep battery discharge
- Protection against reverse polarity connection
- Detection of batteries with wrong rated voltage

All protections have automatic reset. No thermal fuse to be replaced. Robust construction and easy installation All the units in the range have aluminum casing, DIN rail fastening clip and are light and compact. IP20 protection degree.

Technology
The new DC-UPS range is based on two strategic know-how elements. Switching technology, we have 25 years of experience in design of advanced stabilized switching technology power supplies. A power supply/battery charger unit based on this technology is much more efficient.

Back UP Module and Battery Care units, unlike most other state-of-the-art battery chargers, the DC-UPS series is equipped with complex algorithms which controls the charging process and enable several monitoring functions. The firmware implements the extended battery care know-how, result of many years of experience in this field.

Standards:
- IEC/EN 60335-2-29 Battery chargers
- EN60950 / UL60950
- EMC Directive
- Electrical safety EN54-4 Fire Detection and fire alarm systems
- DIN 41773 (Charging cycle)

CBI All in One
DC UPS Power Solutions

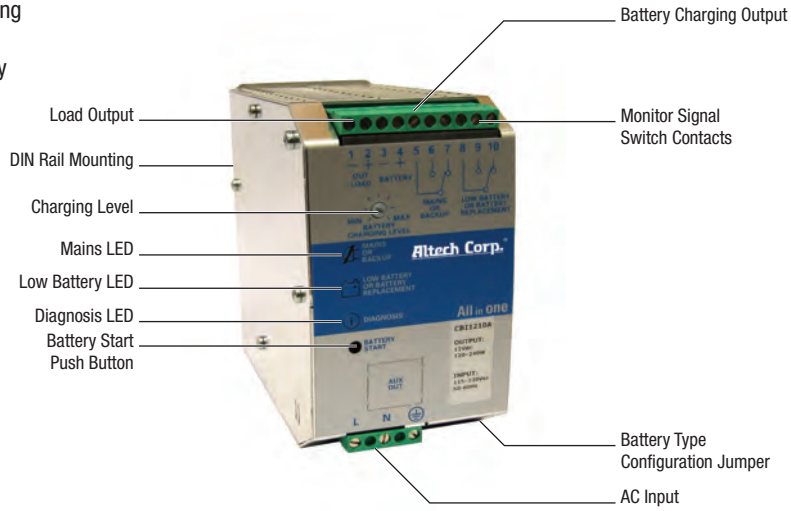
CBI All In One UPS Power Solutions combine the requirements for several applications in just one device which can be used as power supply unit, battery charger, battery care module or backup module. The available power is automatically distributed among load and battery, while supplying power to the load always is the first priority. The maximum available current of the load output is two times the value of the device's rated current.

If the device is disconnected from the main power source, the battery will supply the load until the battery voltage reaches 1.5 V per cell. This prevents the battery from deep discharge. CBI devices provide microprocessor controlled battery charging. Using algorithms, the battery's condition will be detected and based on that, an appropriate charging mode is chosen. The real-time diagnostics system will continuously monitor the charging progress and indicate possibly occurring faults such as elements in short circuit, accidental reverse polarity connection or disconnection of the battery by the battery fault LED and a flashing code of the diagnosis LED.

CBI All In One UPS Power Solutions are suitable for open/sealed lead acid-, lead gel- and optionally Ni-Cd batteries. By using the battery-select-jumper, it is possible to set predefined charging curves for those battery types. The available charging options are recovery-, boost- and trickle charge. All CB devices are built in a rugged metal case with a DIN rail mounting bracket.

Features:

- Power supply, battery charger, battery care module and backup module in one device
- Three charging modes
- Compact, rugged metal case
- Available in 12VDC, 24VDC and 48VDC
- Suitable for most common battery types
- Adjustable charging current
- Easy battery diagnosis and fault identification either by LED or external devices connected to fault
- Status contacts
- High efficiency up to 91% through switching technology
- Several output protection features such as short circuit, overload, deep battery discharge etc.
- DIN rail mounting
- Small size
- 3 year warranty



Battery Selection Chart

BUFFERING (MINUTE) TIME

Battery type	1.2 Ah	3.2 Ah	7.2 Ah	12 Ah
Load 1.5 A	20	60	200	400
Load 3 A	8	30	120	240
Load 5 A	3	15	55	100
Load 7.5 A	2	10	30	60
Load 10 A	-	7	20	45
Load 12 A	-	3	12	30
Load 15 A	-	-	9	20
Load 20 A	-	-	7	13

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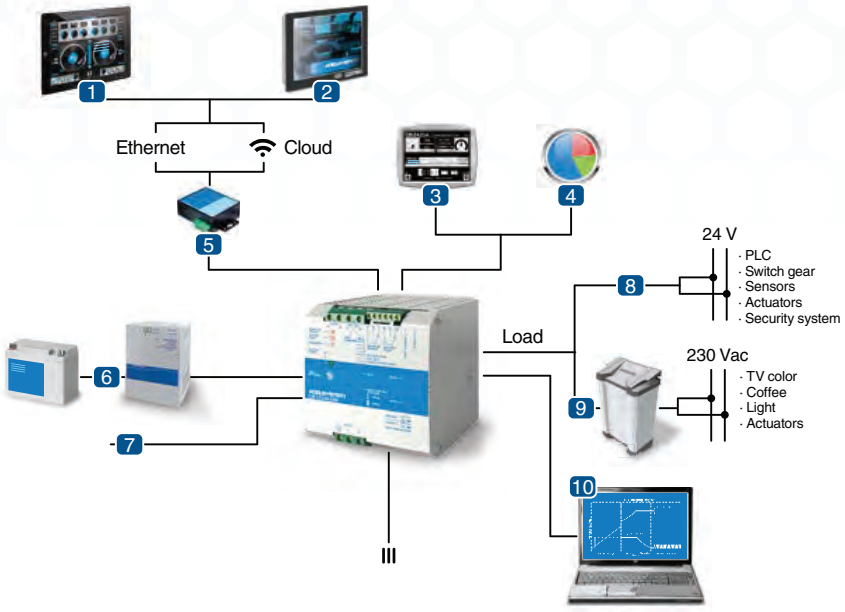
CBI All in One
DC UPS Power Solutions

The new communication platform for ALTECH CORP. devices allows the connection of all components in a simple but very powerful way. A single communication protocol based on MODbus-RTU or CANbus technology. You can select any of the two buses depending on the application. It allows to communicate with all the accessories provided by ALTECH CORP. and to develop an independent system for electrical continuity. At the same time, it allows monitoring and control all parameters in the system, even from the other side of the world, by means of application tools on the cloud.

ALTECH CORP. allows you to implement very simple but sophisticated monitoring and control for your energy system and opens your mind to new ways to approach your applications.



1 Power View App
System Monitoring Software APP for Tablet
"Power View App", is an application for tablet, available in free download. With this App it is possible to connect to ALTECH CORP. cloud and visualize in real time data stored in your own account on the cloud. Data upload is possible through "Power Bus", an ALTECH CORP. MODBUS/Ethernet interface which connects the DC-UPS MODBUS output to the cloud. Uploaded data can be battery voltage, charge current, discharge current, level of charge, charging mode, alarms, diagnostic signals and more. This allows monitoring of DC-UPS and battery status from any location. It just requires wireless internet connection via tablet.

2 Power View System
Monitoring Software
"Power View System" is a PC-based software developed to monitor in real time every important parameter of the DCUPS/battery system. A simple and intuitive user's interface allows monitoring of battery parameters, load output, temperature sensor, mains presence and all alarm and diagnostic flags. All feature are displayed in a single screen.

3 Power View Graphic
Multifunction Graphic Display
"Power View Graphic" is a Multifunction Graphic Display that can be connected by a single data/power cables to the MODBUS interface of a DC-UPS. It allows to display all parameters of the DC-UPS/battery system that can be accessed by moving through the various screens with a push button user's interface. The screen is back-lit and features a screen saver function for energy saving and longer life.

4 Power View Bar Graph
"Power View Bar Graph" is a circular LED display device for panel mount. Simple and sturdy, it displays the current charge mode, state of charge and system diagnostics at a glance.

5 Power Bus
Interface Module MODBUS 485 - Ethernet and Cloud ALTECH CORP. provides a set of educated MODBUS interfaces that allow remote access to DC-UPS/battery data. Both Ethernet and Cloud communication is therefore made feasible.

6 Power Storage Devices
No matter how large or small the capacity of the battery storage needed in the system, ALTECH CORP. DC-UPS devices allow simple and effective integration. ALTECH CORP. has been a pioneer in the development of automatic charging and monitoring DC-UPS. Thanks to Adel Battery Care technology every battery will be taken care of and will last longer. Continuous system monitoring and life test checking allows preventive replacement and therefore increased system reliability. For a compact and optimized integration, ALTECH CORP. supplies Batt VRLA battery modules.

7 Temperature Compensated Charging
By installing the battery temperature probe "RJ Temp", the charge voltage is automatically adapted to battery temperatures. When the battery temperature is low, the charge voltage increases. Conversely, when battery temperature is high, charge voltage is decreased. Over charge and gassing are thus prevented. This will extend battery life, the specific goal of Adel Battery Care philosophy.

8 Load
The DC-UPS unit mission is to always keep the load supplied. The Load Output is the source of power for the whole electric system and has been designed to perform this duty under the most critical conditions, no matter if during stand-by or back-up modes.

9 Inverter
Among the loads there are sometime devices which requires AC power. In this case an inverter must be installed. ALTECH CORP. DC-UPSs allow connection of inverters up to 1500W.

10 Power View Config
System Configuration Software "Power View Config" is a PC-based software with simple and effective user interface that allows application engineer to configure the system, customize battery charging curve, set alarm thresholds, configure the parameters available for communication on the MODBUS output. Output Voltage: 12, 24, 48 Vdc.

CBI All In One UPS Power Solutions

Specifications

Features:

- Power supply, battery charger, battery care module and backup module in one device
- Three charging modes
- Several output protection modes
- Compact, rugged metal case
- Available in 12VDC, 24VDC and 48VDC
- Suitable for most common battery types
- Three charging modes
- Adjustable charging current
- High efficiency up to 91% through switching technology
- DIN rail mounting
- Small size
- 3 year warranty

* **Case Sizes**

Size 1: 65 mm x 115 mm x 135 mm
Size 2: 100 mm x 115 mm x 135 mm
Size 3: 150 mm x 115 mm x 135 mm

Case 1

Case 2

Case 3

12V DC SSingle Phase DIN Rail All In One UPS Power Solution

Cat. No.	Case*	Input VAC	Output* VDC	Output* A	Recovery Charge VDC	Trickle Charge VDC	Boost Charge VDC	NOTES
CBI123A	1	115-230-277	12	3	2-9	13.75	14.4	
CBI126A	1	115-230-277	12	6	2-9	13.75	14.4	
CBI1210A	1	115-230-277	12	10	2-9	13.75	14.4	
CBI1235A	3	115-230-277	12	35	2-9	13.75	14.4	

24V DC Single Phase DIN Rail All In One UPS Power Solution

Cat. No.	Case*	Input VAC	Output* VDC	Output* A	Recovery Charge VDC	Trickle Charge VDC	Boost Charge VDC	NOTES
CBI243A	1	115-230-277	24	3	2-16	27.5	28.8	
CBI245A	1	115-230-277	24	5	2-18	27.5	28.8	
CBI2410A	2	115-230-277	24	10	2-16	27.5	28.8	
CBI2420A	3	115-230-277	24	20	2-16	27.5	28.8	

48V DC Single Phase DIN Rail All-In-One UPS Power Solution

Cat. No.	Case*	Input VAC	Output* VDC	Output* A	Recovery Charge VDC	Trickle Charge VDC	Boost Charge VDC	NOTES
CBI485A	2	115-230-277	48	5	2-24	55	57.6	
CBI4810A	3	115-230-277	48	10	2-24	55	57.6	

Multi-Voltage DIN Rail All-In-One UPS Power Solution

Cat. No.	Case*	Input VAC	Output* VDC	Output* A	Recovery Charge VDC	Trickle Charge VDC	Boost Charge VDC	NOTES
CBI280 3648A	2	115-230-277	36/ 48	7/ 5	2-24	41/ 55	43.2/ 57.6	
CBI280 1224A	2	115-230-277	12/ 24	15/ 10	2-18	13.75/ 27.5	14.4/ 28.8	
CBI280 1224B	2	230-400-500	12/ 24	15/ 10	2-16	13.75/ 27.5	14.4/ 28.8	

*= Output Current can be adjusted from 20%-100% of value given above

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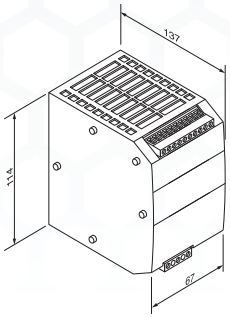
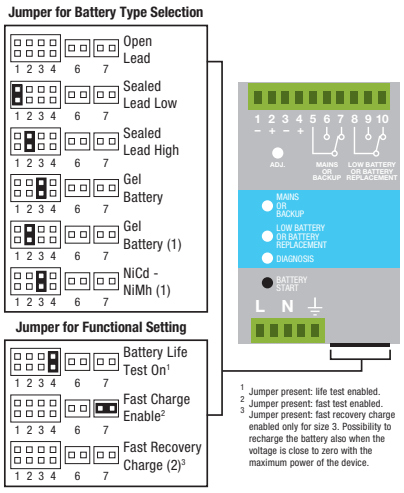
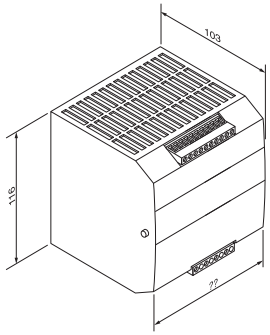
Case 1



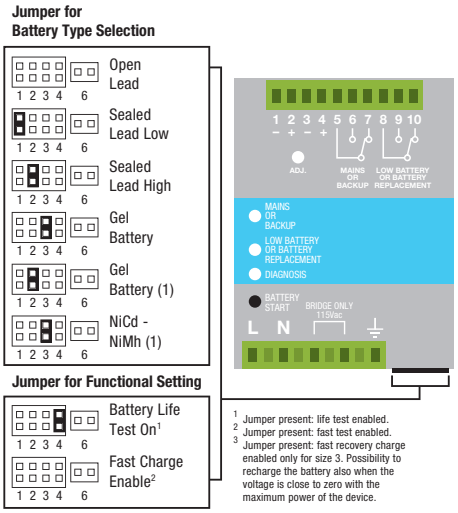
Input Voltage: 115 - 230 - 277 VAC
Input Current: 2.8-1.3A (115-230VAC)
Connection: screw terminal blocks for wires 0.2-2.5mm² / AWG 24-14
Size (WxHxD): 65x115x135 mm
Packaging: 0.6kg



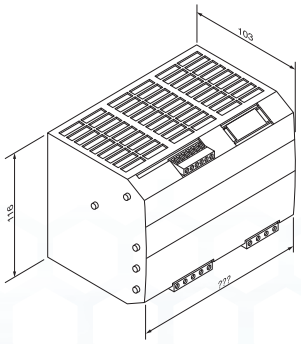
Case 2



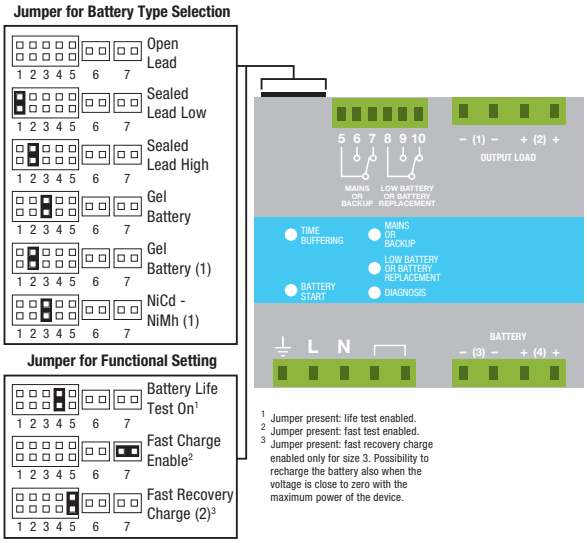
Input Voltage: 115 / 230 - 277 VAC
Input Current: 3.3-2.2A (115-230VAC)
Connection: screw terminal blocks for wires 0.2-2.5mm² / AWG 24-14
Size (WxHxD): 100x115x135 mm
Packaging: 0.85kg



Case 3



Input Voltage: 115 / 230 - 277 VAC
Input Current: 8-4.2A (115-230VAC)
Connection: screw terminal blocks for wires 4mm² / AWG 30-10
Size (WxHxD): 150x115x135 mm
Packaging: 1.55kg



CBI123A
DC UPS

E353188

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 12 VDC; 3 A
- Output: Battery charging 12 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 10-14.4 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI123A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 – 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤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)	12 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	9 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)	10 ~ 14.4 VDC
	Nominal current I_{load}	1.1 x In 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) III$_{load}$ (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
BATTERY OUTPUT	Protection alarm against total discharge	9-10V DC battery
	Threshold alarm for battery almost flat	10-11 V DC battery
	Boost charge (25 °C) (at I_n)	14.4 VDC
	Max. time Bust Charge	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_{batt}	3 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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
OTHERS	Remote Input Control (RTCONN cable)	Boost /Trickle / Recovery
	Ambient temperature (operation)	-25 – +70°C
	De Rating Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25 °C no condensation	95%
	Cooling	Auto convention
	MTBF	> 300.000 h (IEC 61709)

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)

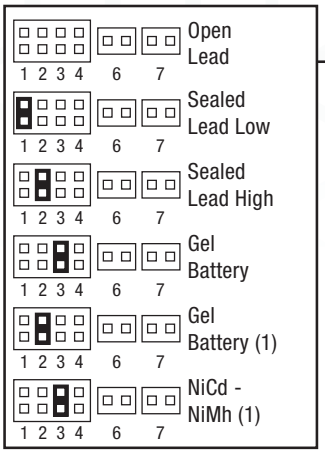
Safety and EMC

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

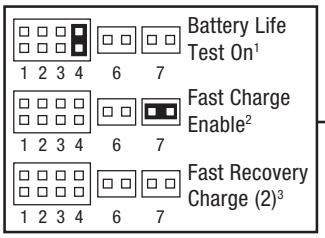
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

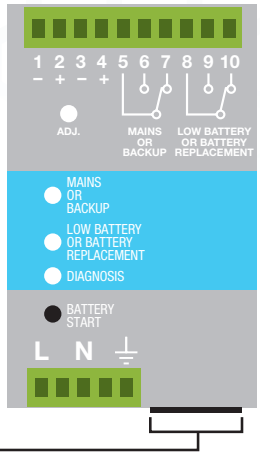
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

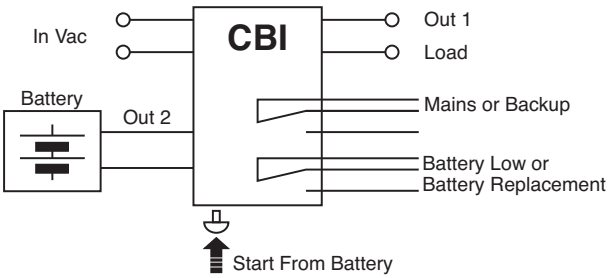


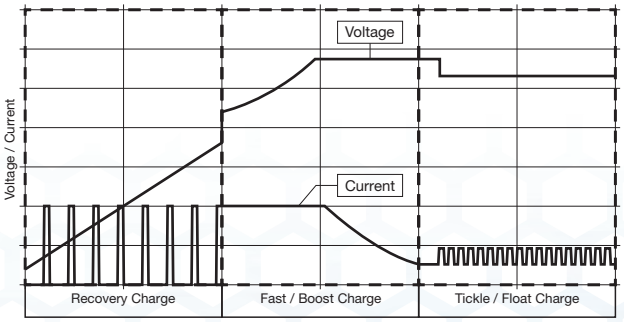
Jumper for Functional Setting





[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.





CBI126A
DC UPS

E353188

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 12 VDC; 6 A
- Output: Battery charging 12 VDC; 6 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 10-14.4 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI126A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 – 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤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)	12 VDC / 6A
	Output Current I_n	6 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	17 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)	10 ~ 14.4 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	6 A
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	12 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	18 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	12 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
BATTERY OUTPUT	Protection alarm against total discharge	9-10 VDC battery voltage
	Threshold alarm for battery almost flat	10-11 VDC battery voltage
	Boost charge (25 °C) (at I_n)	14.4 VDC
	Max. time Bust Charge	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_{batt}	6 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

CBI126A
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)

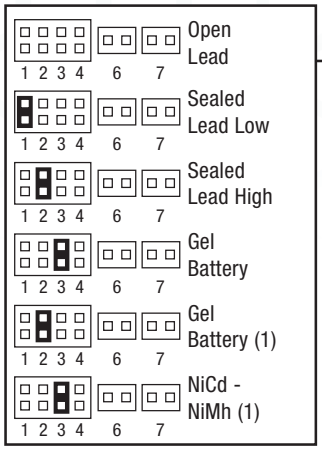
Safety and EMC

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

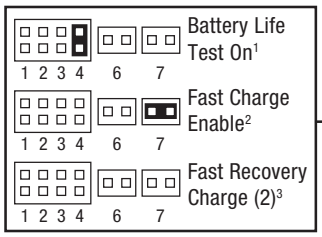
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

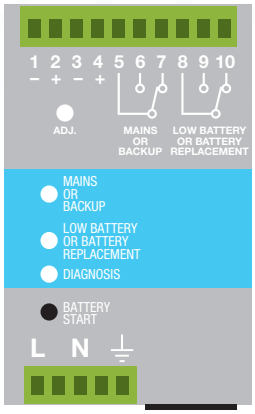
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

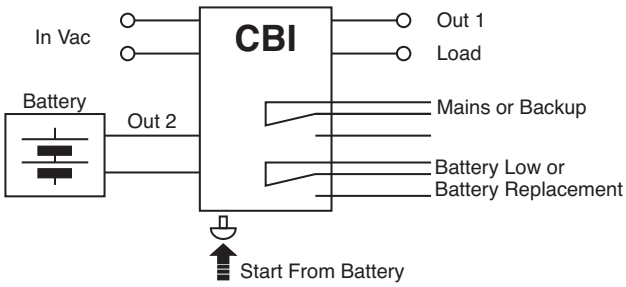


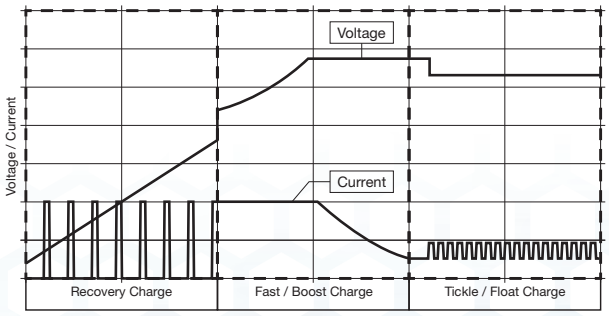
Jumper for Functional Setting





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.





CBI1210A
DC UPS

E353188

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 12 VDC; 10 A
- Output: Battery charging 12 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.
- Switching technology, output voltage 10-14.4 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI1210A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 – 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤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)	12 VDC / 10A
	Output Current I_n	10 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	17 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)	10 ~ 14.4 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	10 A
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	20 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	30 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	20 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
	Threshold alarm for battery almost flat	10-11 V DC battery
BATTERY OUTPUT	Boost charge (25 °C) (at I_n)	14.4 VDC
	Max. time Bust Charge	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_{batt}	10 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF	> 300.000 h (IEC 61709)

CBI1210A
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)

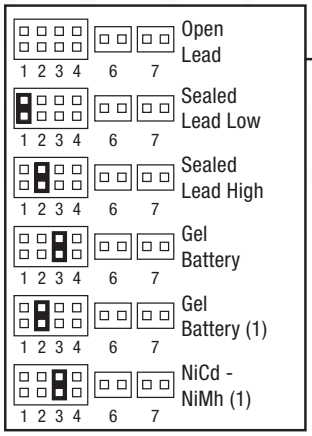
Safety and EMC

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

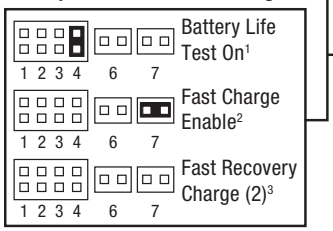
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

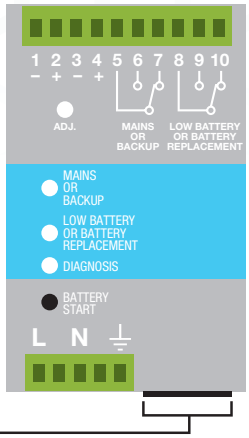
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

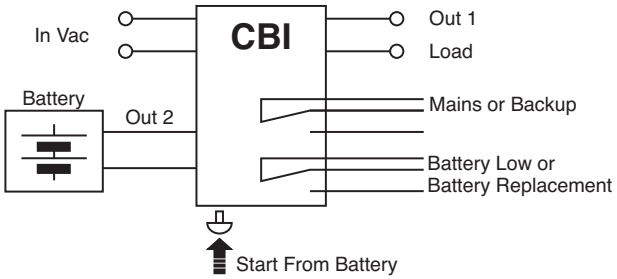


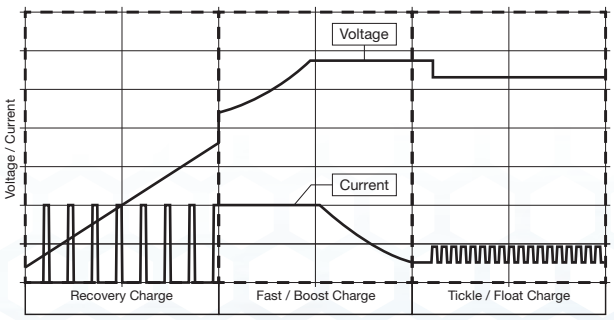
Jumper for Functional Setting





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.





CBI1235A
DC UPS

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 12 VDC; 35 A
- Output: Battery charging 12 VDC; 35 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 10-14.4 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI1235A
INPUT	Nominal Input Voltage	115 / 230 ~ 277 VAC
	Voltage range	90 – 135 / 180-305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤35 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	8 ~ 4.2 A
	Internal fuse (factory replaceable)	10 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Current (I_n)	12 VDC / 35A
	Output Current I_n	35 A
	Efficiency (at 50% of rated current)	≥ 91 %
	Turn-On delay after applying input voltage	1 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	48 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)	10 ~ 14.4 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	35 A
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	70 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	105 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	70 A max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	0.5,1,3,5,10,15,20,30,45,60,∞; Require SW
BATTERY OUTPUT	Protection alarm against total discharge	9-10V DC battery
	Threshold alarm for battery almost flat	10-11 V DC battery
	Boost charge (25 °C) (at I_n)	14.4 VDC
	Max. time Bust Charge	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_{batt}	35 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

CBI1235A
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	Yes - Optional

Environment

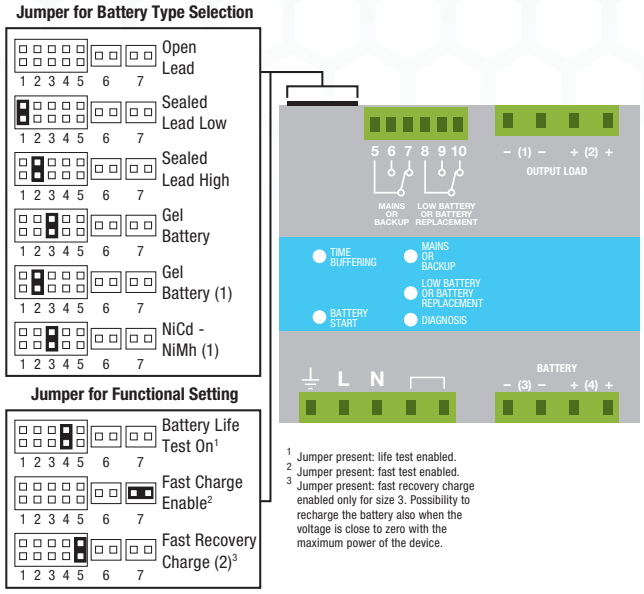
Insulation voltage (IN/OUT)	3000 VAC
Insulation voltage (input / ground)	1605 VAC
Insulation voltage (Output / ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Pollution Degree Environment	2
Connection TB, Screw Terminal	4 mm² (30–10AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	150x115x135 mm
5.91x4.53x5.32 in	
Weight (approx.)	1.55 kg (3.5 Lbs)

Safety and EMC

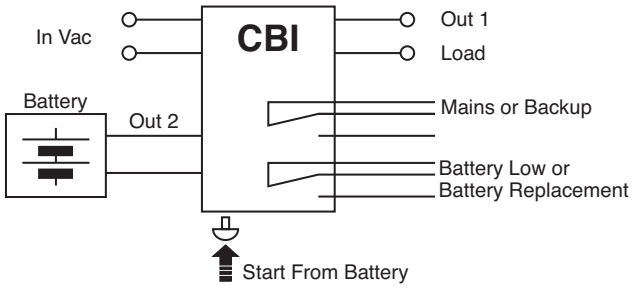
Battery charger standard compliance	IEC/EN 60335-2-29
Safety standards compliance:	EN60950 / UL1950 / CE
Fire Detection and alarm compliance	EN54-4
EMC Directive	89/336/EEC
Charging cycle	DIN41773
Emission	IEC 61000-6-4
Immunity	IEC 61000-6-2

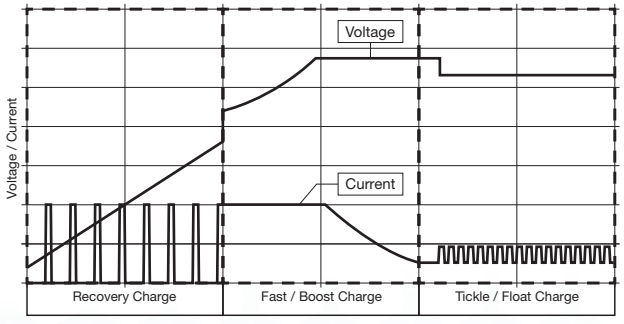
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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



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.





CBI243A
DC UPS

E353188

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

	Cat. No.	CBI243A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 – 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤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 In 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
BATTERY OUTPUT	Protection alarm against total discharge	19-20V DC battery
	Threshold alarm for battery almost flat	20-21 V DC battery
	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 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

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

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 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)

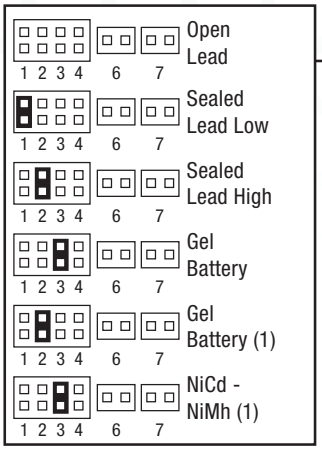
Safety and EMC

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

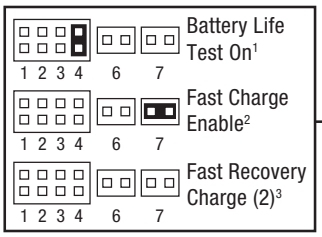
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

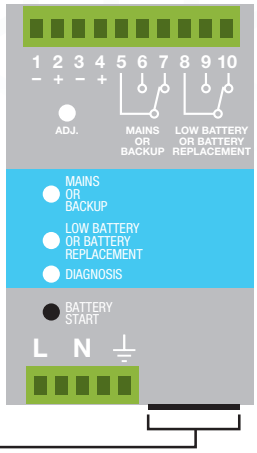
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

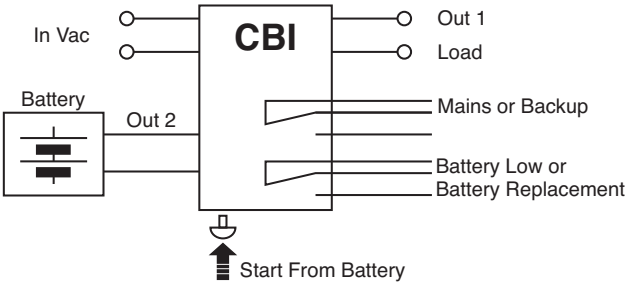


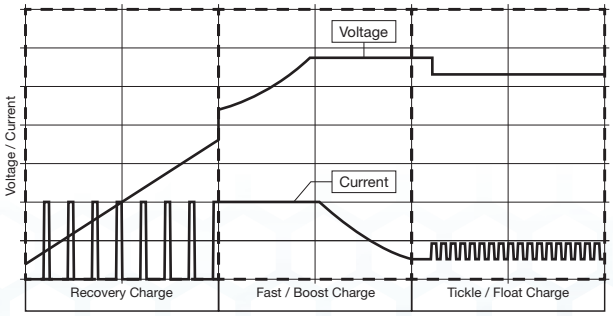
Jumper for Functional Setting





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.





CBI245A
DC UPS

E353188

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 24 VDC; 5 A
- Output: Battery charging 24 VDC; 5 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

	Cat. No.	CBI245A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 – 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤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 / 5A
	Output Current I_n	5 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	17 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 In A ± 5%
	Continuous current (without battery) I_{load}= I_n	5 A
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	10 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	15 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	10 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
BATTERY OUTPUT	Protection alarm against total discharge	19-20V DC battery
	Threshold alarm for battery almost flat	20-21 V DC battery
	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}	5 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

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

CBI245A
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)

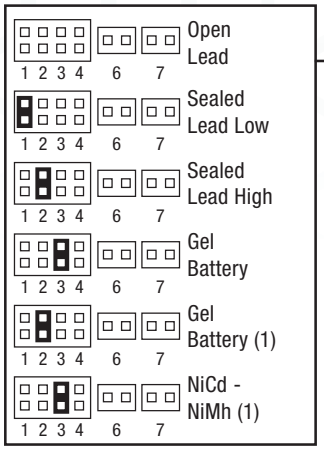
Safety and EMC

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

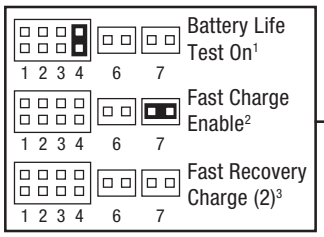
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

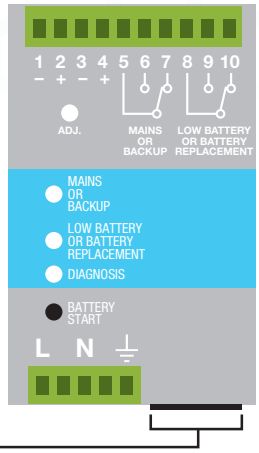
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

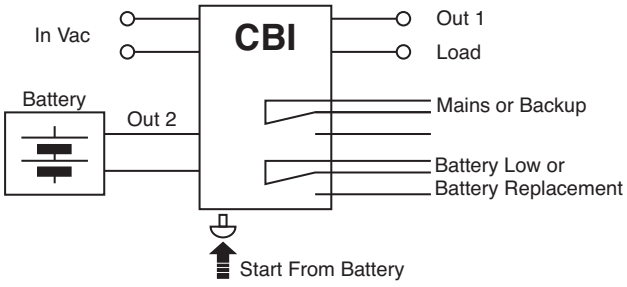


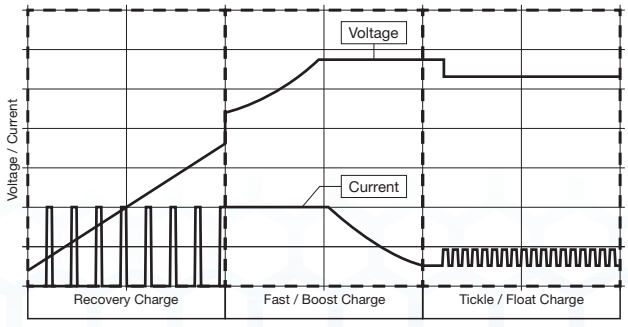
Jumper for Functional Setting





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.





CBI2410A
DC UPS

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 24 VDC; 10 A
- 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.
- Switching technology, output voltage 22-28.8 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI2410A
INPUT	Nominal Input Voltage	115 / 230 ~ 277 VAC
	Voltage range	90-135 / 180-305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤16 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	3.3 ~ 2.2 A
	Internal fuse (factory replaceable)	6.3 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Current (I_n)	24 VDC / 10A
	Output Current I_n	10 A
	Efficiency (at 50% of rated current)	≥ 83 %
	Turn-On delay after applying input voltage	1.5 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	28 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 In A ± 5%
	Continuous current (without battery) $I_{load}= I_n$	10 A
	Continuous current (with battery) $I_{load}= I_n+ I_{batt}$	20 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	30 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	20 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
BATTERY OUTPUT	Protection alarm against total discharge	19-20V DC battery
	Threshold alarm for battery almost flat	20-21 V DC battery
	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}	10 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

CBI2410A
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

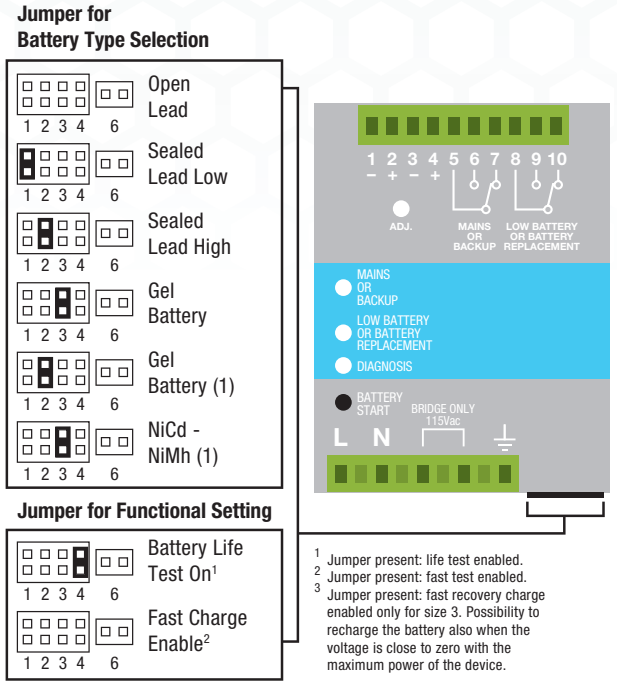
Insulation voltage (IN/OUT)	3000 VAC
Insulation voltage (input / ground)	1605 VAC
Insulation voltage (Output / ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Pollution Degree Environment	2
Connection TB, Screw Terminal	2,5 mm² (24–14AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	100x115x135 mm
2.95x4.53x5.32 in	
Weight (approx.)	0.85 kg (1.9 Lbs)

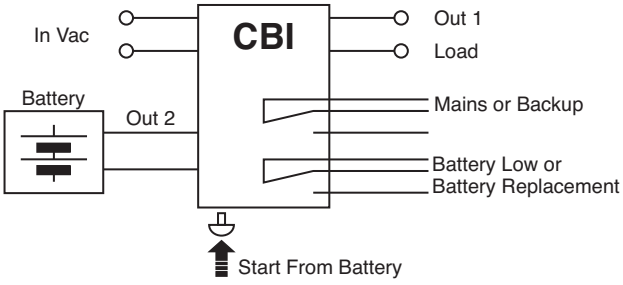
Safety and EMC

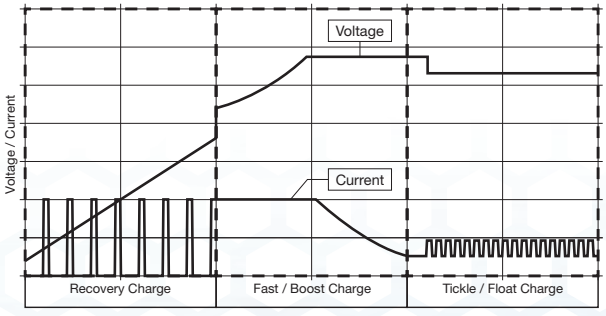
Battery charger standard compliance	IEC/EN 60335-2-29
Safety standards compliance:	EN60950 / UL1950 / CE
Fire Detection and alarm compliance	EN54-4
EMC Directive	89/336/EEC
Charging cycle	DIN41773
Emission	IEC 61000-6-4
Immunity	IEC 61000-6-2

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.







CBI2420A
DC UPS

Features:

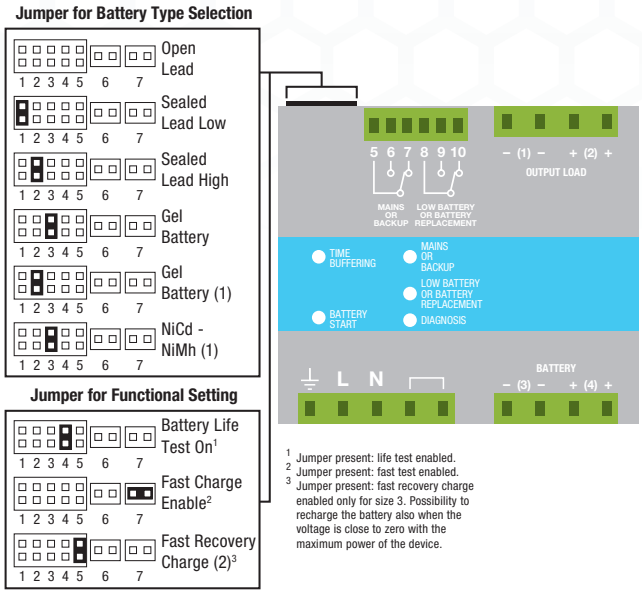
- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 24 VDC; 20 A
- Output: Battery charging 24 VDC; 20 A
- Suited for the following battery types:
  Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option)
- Automatic diagnostic of battery status.
- Switching technology, output voltage 22-18.8 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI2420A
INPUT	Nominal Input Voltage	115 / 230 ~ 277 VAC
	Voltage range	90-135 / 180-305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤35 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	8.0 ~ 4.2 A
	Internal fuse (factory replaceable)	10 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Current (I_n)	24 VDC / 20A
	Output Current I_n	20 A
	Efficiency (at 50% of rated current)	≥ 91 %
	Turn-On delay after applying input voltage	1 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	48 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 In A ± 5%
	Continuous current (without battery) I_{load}= I_n	20 A
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	40 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	60 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	40 A max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	0.5,2,5,10,15,20,30,45,60,∞; 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}	20 A ± 5%
	Charging current limiting I_{adj}	10 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

CBI2420A
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.



[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.

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

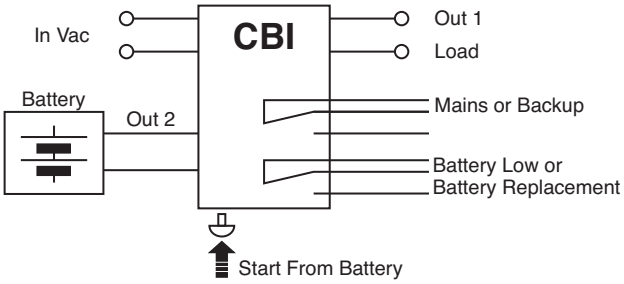
Insulation voltage (IN/OUT)	3000 VAC
Insulation voltage (input / ground)	1605 VAC
Insulation voltage (Output / ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Pollution Degree Environment	2
Connection TB, Screw Terminal	4 mm² (30-10 AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	150x115x135 mm
5.91x4.53x5.32 in	
Weight (approx.)	1.55 kg (3.5 Lbs)

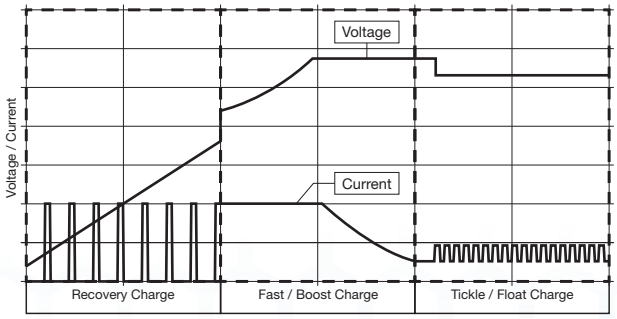
Safety and EMC

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.





CBI485A
DC UPS

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 48VDC; 5A
- Output: Battery charging 48VDC; 5A
- 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 44-57.6VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI485A
INPUT	Nominal Input Voltage	115 / 230 ~ 277 VAC
	Voltage range	90-135 / 180-305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤16 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	3.3 ~ 2.2 A
	Internal fuse (factory replaceable)	6.3 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Current (I_n)	48 VDC / 5A
	Output Current I_n	5 A
	Efficiency (at 50% of rated current)	≥ 83 %
	Turn-On delay after applying input voltage	1.5 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	28 W
PROTECTION	Short-circuit protection	Yes
	Over Load protection	Yes
	Over Voltage Output protection	Yes (typ. 90 VDC)
	Over Temperature protection	Yes
LOAD OUTPUT	Output voltage (at I_n)	44 ~ 57.6 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	5 A
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	10 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	30 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	15 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	38-40V DC battery
	Threshold alarm for battery almost flat	40-42V DC battery
BATTERY OUTPUT	Boost charge (25 °C) (at I_n)	56.6 VDC
	Max. time Bust Charge	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 °C) (at I_n)	55 VDC
	Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50 (40 elem.)
	Recovery Charge	2 ~ 24 VDC
	Charging current max I_{batt}	2 A ± 5%
	Charging current limiting I_{adj}	20 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

CBI485A
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 (24-14 AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	100x115x135 mm
2.95x4.53x5.32 in	
Weight (approx.)	0.85 kg (1.9 Lbs)

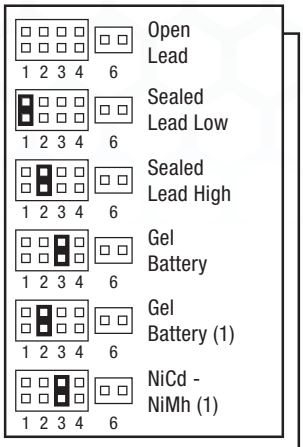
Safety and EMC

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

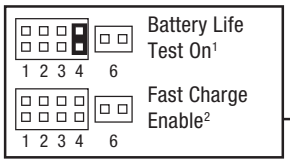
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

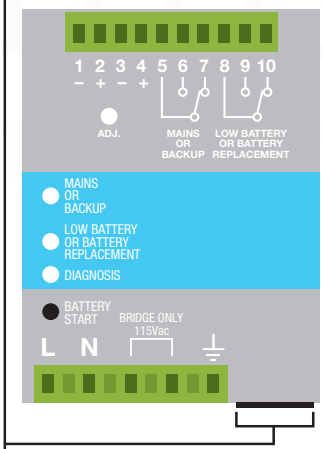
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

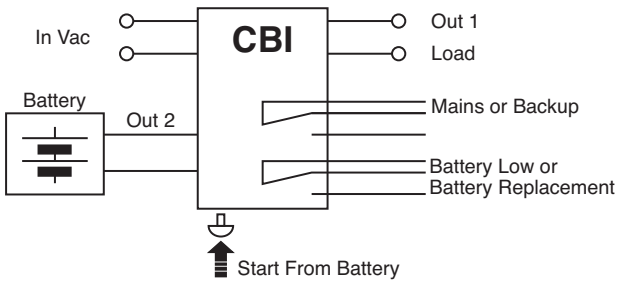


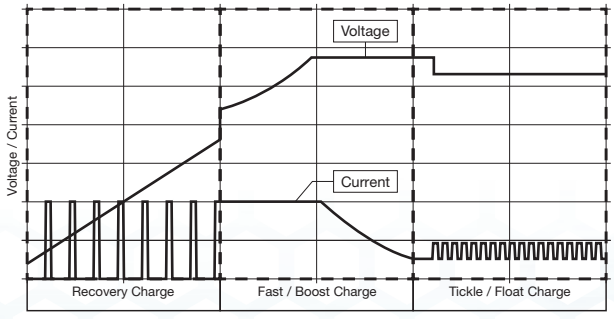
Jumper for Functional Setting





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.





CBI4810A
DC UPS

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 48VDC; 10A
- Output: Battery charging 48VDC; 10A
- 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 44-57.6VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI4810A
INPUT	Nominal Input Voltage	115 / 230 ~ 277 VAC
	Voltage range	90-135 / 180-305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤35 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	8.0 ~ 4.2 A
	Internal fuse (factory replaceable)	10 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Current (I_n)	48 VDC / 10A
	Output Current I_n	10 A
	Efficiency (at 50% of rated current)	≥ 91 %
	Turn-On delay after applying input voltage	1 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	54 W
PROTECTION	Short-circuit protection	Yes
	Over Load protection	Yes
	Over Voltage Output protection	Yes (typ. 90 VDC)
	Over Temperature protection	Yes
LOAD OUTPUT	Output voltage (at I_n)	44 ~ 57.6 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) $I_{load}= I_n$	10 A
	Continuous current (with battery) $I_{load}= I_n+ I_{batt}$	20 A
	Max. Current Output Load (Main) I_{load} (4 sec.)	30 A max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	20 A max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	0.5,1,3,5,10,15,20,30,45,60,∞; Require SW
	Protection alarm against total discharge	38-40V DC battery
	Threshold alarm for battery almost flat	40-42V DC battery
BATTERY OUTPUT	Boost charge (25 °C) (at I_n)	56.6 VDC
	Max. time Bust Charge	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 °C) (at I_n)	55 VDC
	Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50 (40 elem.)
	Recovery Charge	2 ~ 24 VDC
	Charging current max I_{batt}	10 A ± 5%
	Charging current limiting I_{adj}	10 – 100 % / Ibatt
	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 Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

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

CBI4810A
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	Yes - Optional

Environment

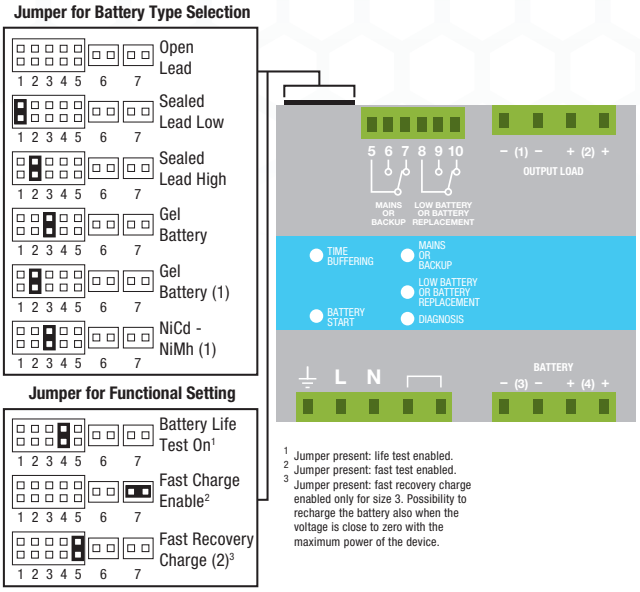
Insulation voltage (IN/OUT)	3000 VAC
Insulation voltage (input / ground)	1605 VAC
Insulation voltage (Output / ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Pollution Degree Environment	2
Connection TB, Screw Terminal	4 mm² (30-10 AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	150x115x135 mm
5.91x4.53x5.32 in	
Weight (approx.)	1.55 kg (3.5 Lbs)

Safety and EMC

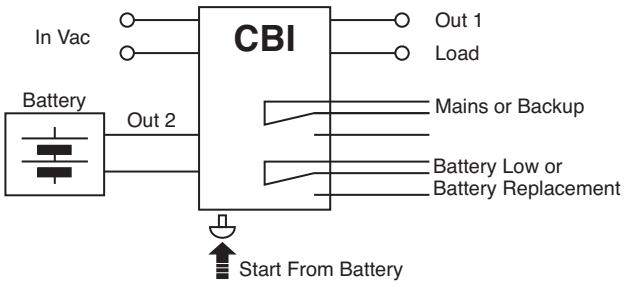
Battery charger standard compliance	IEC/EN 60335-2-29
Safety standards compliance:	EN60950 / UL1950 / CE
Fire Detection and alarm compliance	EN54-4
EMC Directive	89/336/EEC
Charging cycle	DIN41773
Emission	IEC 61000-6-4
Immunity	IEC 61000-6-2

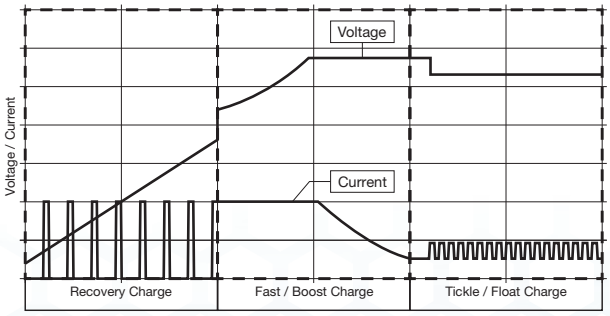
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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



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.





CBI2803648A
DC UPS

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 36/48VDC; 7/5A
- Output: Battery charging 36/48VDC; 7/5A
- 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 33-43.2/44-57.6VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI2803648A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 ~ 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤16 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	3.3 ~ 2.2 A
	Internal fuse (factory replaceable)	6.3 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Power (W)	36 / 48 VDC / 270W (jumper selection)
	Output Current I_n	7 A @36VDC / 5A @48VDC
	Efficiency (at 50% of rated current)	≥ 91 %
	Turn-On delay after applying input voltage	1.5 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	30 W
PROTECTION	Short-circuit protection	Yes
	Over Load protection	Yes
	Over Voltage Output protection	Yes (typ. 90 VDC)
	Over Temperature protection	Yes
LOAD OUTPUT	Output voltage (at I_n	33 ~ 43.2 / 44 ~ 57.6 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	7 A @ 36VDC / 5A @ 48VDC
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	14 A @ 36VDC / 10A @ 48VDC max.
	Max. Current Output Load (Main) I_{load} (4 sec.)	21 A @ 36VDC / 15A @ 48VDC max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	14 A @ 36VDC / 10A @ 48VDC max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	0.5,2,5,10,15,20,30,45,60,∞
	Protection alarm against total discharge	26-28 / 38-40V DC battery
	Threshold alarm for battery almost flat	29-31 / 40-42V DC battery
BATTERY OUTPUT	Boost charge (25 °C) (at I_n)	43.2 @ 36VDC / 57.6 @ 48VDC
	Max. time Bust Charge	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 °C) (at I_n)	41.4 @ 36VDC / 55.2 @ 48VDC
	Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50V/element
	Recovery Charge	2 ~ 18 / 2 ~ 24VDC
	Charging current max I_{batt}	7 A @ 36VDC / 5A @ 48VDC ± 5%
	Charging current limiting I_{adj}	10 – 100 % / Ibatt
	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}	4 stage
	Remote Input Control (RTCONN cable)	Boost / Trickle
OTHERS	Ambient temperature (operation)	-25 – +70°C
	De Rating Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

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

CBI2803648A
DC UPS

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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	Yes - Optional

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 (24-14 AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	100x115x135 mm
2.95x4.53x5.32 in	
Weight (approx.)	0.85 kg (1.9 Lbs)

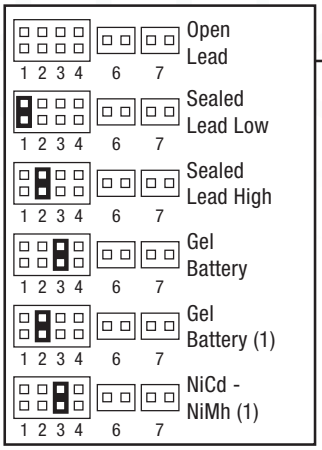
Safety and EMC

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

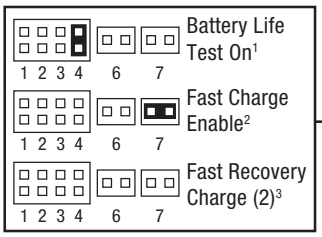
The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge,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

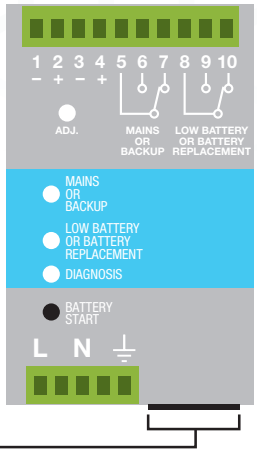
A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection

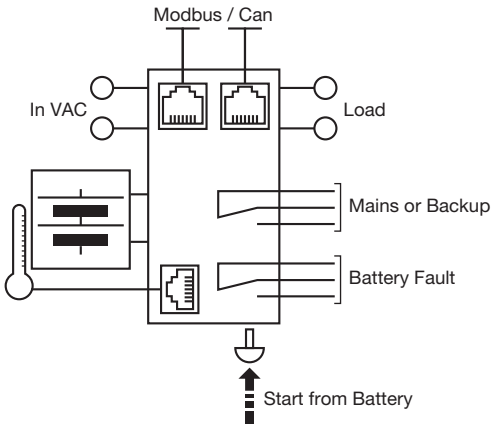


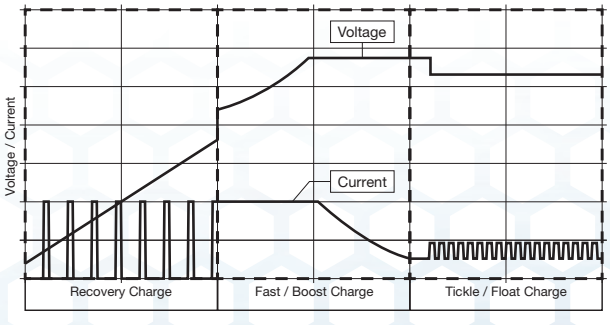
Jumper for Functional Setting





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.





CBI2801224A
DC UPS

Features:

- Input: Single-phase 115 - 277 VAC
- Output Load: power supply 12 VDC; 15 A / 234VDC; 10A
- Output: Battery charging 12 VDC; 15 A / 24VDC; 10A
- 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 10-14.4 VDC / 22-28.8VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI2801224A
INPUT	Nominal Input Voltage	115 ~ 230 ~ 277 VAC
	Voltage range	90 ~ 305 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤16 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	3.3 ~ 2.2 A
	Internal fuse (factory replaceable)	6.3 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Power (W)	12 / 24 VDC / 270W (jumper selection)
	Output Current I_n	15 A @ 12VDC / 10A @ 24VDC
	Efficiency (at 50% of rated current)	≥ 91 %
	Turn-On delay after applying input voltage	1 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	28 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)	10-14.4 / 22-28.8 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	15 A @ 12VDC / 10A @ 24VDC
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	30 A @ 12VDC / 20A @ 24VDC max.
	Max. Current Output Load (Main) I_{load} (4 sec.)	45 A @ 12VDC / 30A @ 24VDC max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	30 A @ 12VDC / 20A @ 24VDC max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	0.5,2,5,10,15,20,30,45,60,∞
	Protection alarm against total discharge	10-11 / 20-21V DC battery
	Threshold alarm for battery almost flat	9-10 / 19-20V DC battery
BATTERY OUTPUT	Boost charge (25 °C) (at I_n)	14.4 @ 12VDC / 28.8 @ 24VDC
	Max. time Bust Charge	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 °C) (at I_n)	13.8 @ 12VDC / 27.6 @ 24VDC
	Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50V / element
	Recovery Charge	2 ~ 18 / 2 ~ 24VDC
	Charging current max I_{batt}	15 A @ 12VDC / 10A @ 24VDC ± 5%
	Charging current limiting I_{adj}	10 – 100 % / Ibatt
	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}	4 stage
	Remote Input Control (RTCONN cable)	Boost / Trickle
OTHERS	Ambient temperature (operation)	-25 – +70°C
	De Rating Ta > 50°C	- 2.5%(In) / °C
	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

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

CBI2801224A
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 – (Aux 1)
ModBus / Can Bus	Yes – (Aux 2)
ModBus / Can Bus	Yes – (Aux 3)

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 (24-14 AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	100x115x135 mm
2.95x4.53x5.32 in	
Weight (approx.)	0.85 kg (1.9 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.

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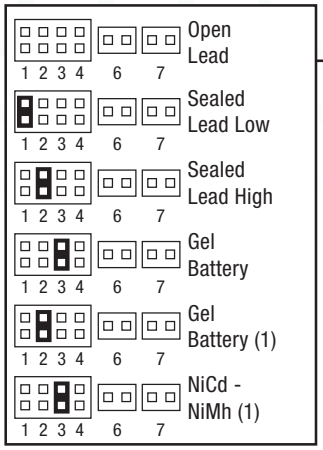
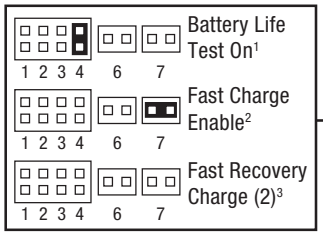
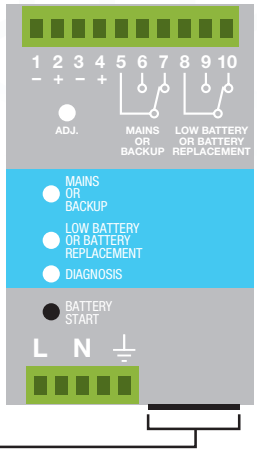
Jumper for Battery Type Selection



Jumper for Functional Setting





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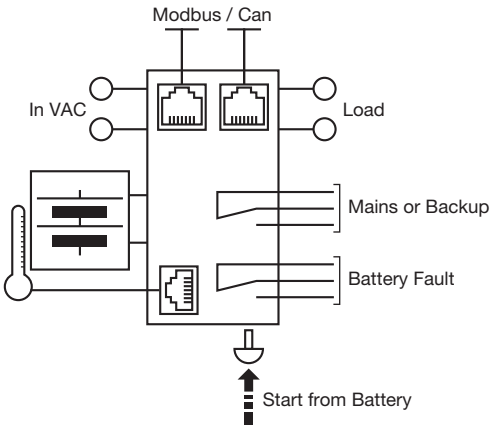

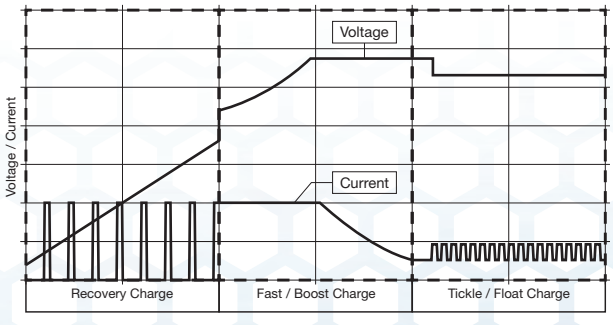

CBI2801224B
DC UPS

Features:

- Input: Single-phase 230 - 500 VAC
- Output Load: power supply 12 VDC; 15 A / 24VDC; 10A
- Output: Battery charging 12 VDC; 15 A / 24VDC; 10A
- 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 10-14.4 VDC / 22-28.8 VDC
- Three charging levels: Boost, trickle and recovery
- Protection degree IP20 - DIN rail mountable

	Cat. No.	CBI2801224B
INPUT	Nominal Input Voltage	230 ~ 400 ~ 500 VAC
	Voltage range	180-264 / 330-550 VAC
	Inrush Current (V_n – I_n nom. Load). I^2t	≤16 A ≤ 5 msec
	Frequency	47 – 63 Hz
	Input Current (115 – 230 VAC)	2.2 -1.4 -1.0 A
	Internal fuse (factory replaceable)	4 A
	External Fuse (recommended) MCB curve B	16 A
OUTPUT	Output Voltage (V_n) / Nominal Power (W)	12 / 24 VDC / 270W (jumper selection)
	Output Current I_n	15 A @ 12VDC / 10A @ 24VDC
	Efficiency (at 50% of rated current)	≥ 91 %
	Turn-On delay after applying input voltage	1 sec. (max)
	Start up with Strong Load (capacitive load)	Yes, Unlimited
	Dissipation power load max	28 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)	10-14.4 / 22-28.8 VDC
	Nominal current I_{load}	1.1 x In A ± 5%
	Continuous current (without battery) I_{load}= I_n	15 A @ 12VDC / 10A @ 24VDC
	Continuous current (with battery) I_{load}= I_n+ I_{batt}	30 A @ 12VDC / 20A @ 24VDC max.
	Max. Current Output Load (Main) I_{load} (4 sec.)	45 A @ 12VDC / 30A @ 24VDC max.
	Max. Current Output Load (Back Up) I_{load} (4 sec.)	30 A @ 12VDC / 20A @ 24VDC max.
	Push Button or Remote Input Control (RTCONN cable)	Start From Battery Without Main
	Time Buffering; min (switch output off without main input)	0.5,2,5,10,15,20,30,45,60,∞
	Protection alarm against total discharge	10-11 / 20-21V DC battery
	Threshold alarm for battery almost flat	9-10 / 19-20V DC battery
BATTERY OUTPUT	Boost charge (25 °C) (at I_n)	14.4 @ 12VDC / 28.8 @ 24VDC
	Max. time Bust Charge	15 h
	Min. time Bust Charge	1 min.
	Trickle charge (25 °C) (at I_n)	13.8 @ 12VDC / 27.6 @ 24VDC
	Jumper Configuration battery type (V cell) Ni-Cd (optional)	2.23; 2.25; 2.27; 2.30; NiCd: 1.50 / element
	Recovery Charge	2 ~ 18 / 2 ~ 24VDC
	Charging current max I_{batt}	15 A @ 12VDC / 10A @ 24VDC ± 5%
	Charging current limiting I_{adj}	10 – 100 % / Ibatt
	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}	4 stage
	Remote Input Control (RTCONN cable)	Boost / Trickle
OTHERS	Ambient temperature (operation)	-25 – +70°C
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	Ambient temperature Storage	-40 – +85°C
	Humidity at 25°C no condensation	95%
	Cooling	Auto convention
	MTBF (IEC 61709)	> 300.000 h

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RJ45 Connection Input/Output

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ModBus / Can Bus	Yes – (Aux 2)
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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 (24-14 AWG)
Protection class (Ground Connected)	Class I
Dimensions (WxHxD)	100x115x135 mm
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Weight (approx.)	0.85 kg (1.9 Lbs)

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Battery charger standard compliance	IEC/EN 60335-2-29
Safety standards compliance:	EN60950 / UL1950 / CE
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EMC Directive	89/336/EEC
Charging cycle	DIN41773
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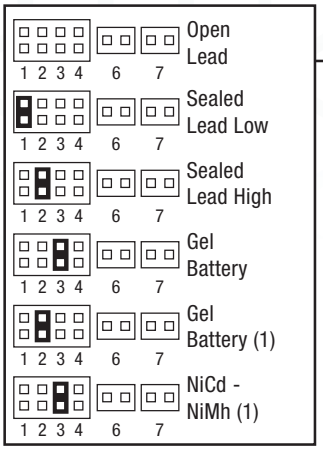
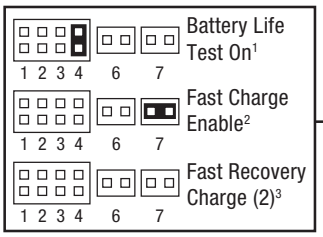
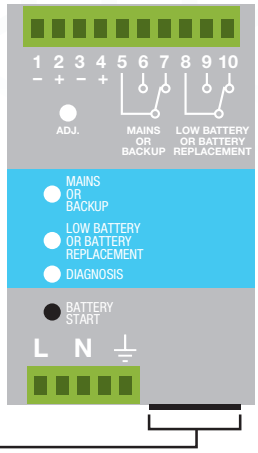
Jumper for Battery Type Selection



Jumper for Functional Setting





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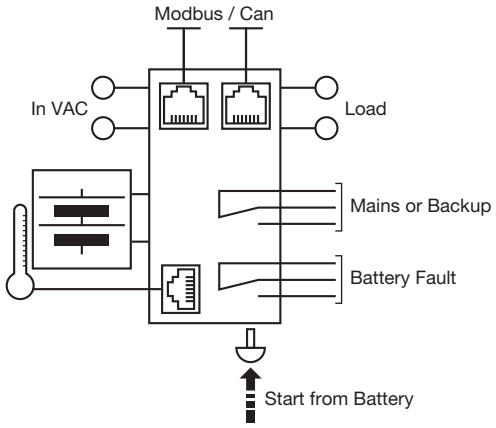
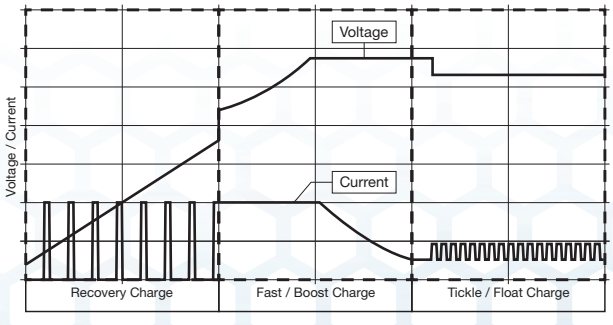




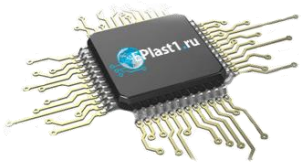
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.