

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

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INPUT	Cat. No.	CBI1235A
	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
	, , , , ,	
OUTPUT	External Fuse (recommended) MCB curve B	16 A
	Output Valtage (V.) / Naminal Comment (T.)	10.VDC / 25A
	Output Voltage (V _n) / Nominal Current (I _n)	12 VDC / 35A
	Output Current In	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
PROTECTION	Dissipation power load max	48 W
PROTECTION		
	Short-circuit protection	Yes
	Over Load protection	Yes
CARR	Over Voltage Output protection	Yes (typ. 35 VDC)
LOAD	Over Temperature protection	Yes
<u>OUTPUT</u>	<u>'</u>	'
	Output voltage (at I _n)	10 ~ 14.4 VDC
	Nominal current I _{load}	1.1 x ln 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
	Protection alarm against total discharge	9-10V DC battery
BATTERY	Threshold alarm for battery almost flat	10-11 V DC battery
OUTPUT	Throughout diath for battery difficult flat	10 11 1 Do battory
	Boost charge (25 °C) (at In)	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) Recovery Charge	2.23; 2.25; 2.27; 2.30; NiCd: 1.50 (10 elem.)
	, ,	2 ~ 9 VDC
	Charging current max I _{batt}	$35 \text{ A} \pm 5\%$
	Charging current limiting I _{adj}	20 – 100 % / lbatt
	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
OTHERS	T	
	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
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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 mm ² (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)

IEC/EN 60335-2-29
EN60950 / UL1950 / CE
EN54-4
89/336/EEC
DIN41773
IEC 61000-6-4
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.

Open 1 2 3 4 5 6 7 Sealed Lead Low 1 2 3 4 5 6 7 Sealed Lead High 1 2 3 4 5 6 7 Gel Battery 1 2 3 4 5 6 7 Gel Battery (1) 1 2 3 4 5 6 7 NiCd - NiMh (1) 1 2 3 4 5 6 7 Jumper for Functional Setting **Battery Life** Battery L Jumper present: life test enabled. Jumper present: fast test enabled. Jumper present: fast recovery charge enabled only for size 3. Possibility to recharge the battery also when the voltage is close to zero with the maximum power of the device. 1 2 3 4 5 6 7 Fast Charge Fast Ch

Jumper for Battery Type Selection

1 2 3 4 5 6 7

Fast Recovery Charge (2)3



