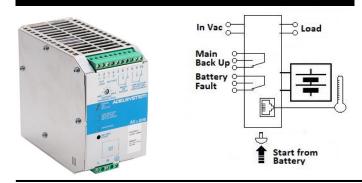
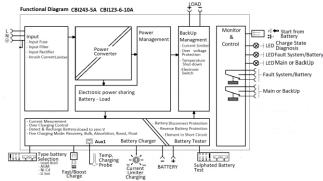
CBI243A ALL In One



Technical features

Thanks to the All In One units (DC-UPS), it will be possible to optimize power management. The available power is 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, because also the power going to the battery will go to the load if the load so requires. The maximum available current on the load output is 2 times the value of the device rated current In. We call "Battery Care" the concept base on algorithms that implement rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. The Real Time Auto-diagnostic system, monitoring battery faults such as, battery Sulfated, elements in short circuit, accidental reverse polarity connection, disconnection of the battery, they can easily be detected and removed by help of Blink Code of Diagnosis Led; during the installation and after sell. The continuous monitoring of battery efficiency reduces battery damage risk and allows a safe operation in permanent connection. Each device is suited for all battery types by means of jumpers it is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (option). They are programmed for two charging levels, boost and charge, but they can be changed to single charging level by the user. A rugged casing with bracket for DIN rail mounting provides IP20 protection degree. They are extremely compact and cost-effective.



Norms and Certifications

In Conformity to: CNL ENGOSO / UL60950-1 and CSA C22.2 No. 60950-1-07 (Information Technology Equipment) – Safety – PartI: General Requirement. Electrical safety; EN54-4 Fire Detection and fire alarm systems; 89/336/EEC EMC Directive; 2014/35/UE (Low Voltage); Safety EN IEC 63268-1: 2014/AC:2015; DIN41773 (Charging cycle); Emission: IEC 61000-6-3; Immunity: IEC 61000-6-2. CE.

Climatic Data

Ambient temperature (operation)	-25 ÷ +70°C	
De Rating T ^a > 50°C	- 2.5%(In) / °C	
Ambient temperature Storage	-40 ÷ +85°C	
Humidity at 25 °C no condensation	95% to 25°C No restrictions	
Altitude: 0 to 2 000m - 0 to 6 560ft		
Altitude: 2 000 to 6 000m - 6 560 to 20 000ft	De-rating 5°C/1000m	
Cooling	Auto convention	
General Data		
Insulation voltage (IN/OUT)	3000 Vac	
Insulation voltage (Input / Earth, PE)	2000 Vac	
Insulation voltage (Out Load & Battery / Earth, PE)	500 Vac	
Insulation voltage (Out Load & Battery / Fault System &	500 Vac	
Main or Back Up terminal)		
Protection Class (EN/IEC 60529)	IP20	
Reliability: MTBF IEC 61709	> 300.000 h	
Pollution Degree Environment	2	
Connection Terminal Blocks screw Type	2,5mm(24–14AWG)	
Protection class (PE Connected)	l, with PE	
Dimensions (w-h-d)	65x115x135 mm	
Weight	0.6 kg approx.	
Input Data		
Nominal Input Voltage Vac	115 - 230- 277	
Voltage range Vac	90 ÷ 305	
Inrush Current (Vn – In nom. Load) I ² t	\leq 11 A \leq 5 msec.	
Frequency	47 ÷ 63 Hz	
Input Current (115 – 230 – 277 Vac) Max	2.8 – 1.7 - 1.3 A	

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, Li-Ion and Ni-Cd

Automatic diagnostic of battery status. Charging curve IUoU, constant voltage and constant current Battery Life Test function (Battery Care)

Switching technology, output voltage 22-28.8Vdc Three charging levels: Boost, Float and Recovery Protected against short circuit and inverted polarity Signal output (contact free) for discharged or damaged battery Signal output (contact free) for mains or Back-UP Protection degree IP20 - DIN rail; Space saving

Internal fuse (not replaceable) 4 A External Fuse (recommended) MCB curve B 10 A Output Voltage (Nr)/ Nominal Current (In) 24 Vdc / 3A Output Current In, = Iload 3 A Efficiency (at 50% of rated current) ≥ 90 % Residual Ripple ≤ 60 mV ₂₀ Turn-On delay after applying mains voltage 1 sec. (max) Start up with Strong Load (capacitive load) Yes, Unlimited Dissipation power load max (W) 13 Short-Circuit protection) Yes Over Load protection Yes Over Voltage Output protection Yes Output Voltage Battery Follow the Out Load Boost-Fast charge Lumper Configuration 25°C Lead Acid: 2.24 (V/cell). Jumper Configuration battery type NiCd:1.51; Li-Ion: 3.65 Float Charge Lumper Configuration 25°C (V/cell) Lead Acid: 2.24 U/vcell). Jumper Configuration S2°C (V/cell) Lead Acid: 2.24 Jumper Configuration S2°C (V/cell) Lead Acid: 2.24 Min. Time Boost-Buik charge (Typ. at IN) 15 h Max. Time Boost-Buik charge (Typ. at IN) 15 h Min.Time Boost-Buik charge (Typ. at IN) 15 h Max. Time Boost-Buik cha	Internal fuce (not replaceable)	4 A		
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¹Can be adjusted via PC software mode All specifications are subject to change without notice CBI243A Data sheet _R31



