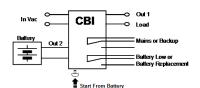
CBI243A ALL In One

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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
Automatic diagnostic of battery status. Charging
curve IUoUO, constant voltage and constant current
Battery Life Test function (Battery Care)
Switching technology, output voltage 22-28.8Vdc
Three charging levels: Boost, Trickle 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

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 provide IP20 protection degree. They are extremely compact and cost-effective.

Norms and Certifications

In Conformity to: IEC/EN 60335-2-29 Battery chargers; EN60950 / UL1950 Electrical safety; EN54-4 Fire Detection and fire alarm systems; 89/336/EEC EMC Directive; 2006/95/EC (Low Voltage); DIN41773 (Charging cycle); Emission: IEC 61000-6-4; Immunity: IEC 61000-6-2. CE.

Climatic Data

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Ambient temperature (operation)	-25 ÷ +70°C
De Rating T ^a > 50°C	- 2.5%(In) / ℃
Ambient temperature Storage	-40 ÷ +85°C
Humidity at 25 °C no condensation	95% to 25°C
Cooling	Auto convention
General Data	
Insulation voltage (IN/OUT)	3000 Vac
Insulation voltage (input / ground)	1605 Vac
Insulation voltage (Output / ground)	500 Vac
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)	I, 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) I2t	\leq 11 A \leq 5 msec.
Frequency	47 ÷ 63 Hz
Input Current (115 – 230 Vac)	1.91 – 0.96 A
Internal fuse (not replaceable)	4 A

External Fuse (recommended) MCB curve B	10 A	
Output Data (internal power supply)		
Output Voltage (Vn) / Nominal Current (In)	24 Vdc / 3A	
Output Current In	3 A	
Efficiency (at 50% of rated current)	≥ 90 %	
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 (typ. 35 Vdc)	
Overheating Thermal protection	Yes	
Battery Output		
Boost charge (25 °C) (at In)	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	2.23;2,25;2,27;2,3;	
(V cell) Ni-Cd (optional)	NiCd:1,5 (20	
, , , ,	elem.) ``	
Recovery Charge	2 – 16 Vdc	
Charging current max Ibatt	3 A ± 5%	
Charging current limiting I _{adj}	20 ÷ 100 % / I _{bat}	
Reverse battery protection	Yes	
Sulfated battery check	Yes by Jumper	
Detection of element in short circuit	Yes	
Quiescent Current	≤ 5 mA	
Charging Curve automatic: IUoUo	3 stage	
Remote Input Control (RTCONN cable)	Boost /Trickle	
Load Output	· · · · · · · · · · · · · · · · · · ·	
Output voltage (at In)	22 - 28.8 Vdc	
Nominal current I _{load}	1.1 x I _n A ± 5%	
Continuous current (without battery) I _{load} I _n	3 A	
Continuous current (With battery) $I_{load} = I_{n+}$ I_{batt}	6 A	
Max. current Output Load (Main) I _{load} (4 sec.)	9 A max.	
Max. current Output Load (Back Up)I _{load (4 sec.)}	6 A max.	
Push Button or	Start From Battery	
Remote Input Control (RTCONN cable)	Without Main	
Time Buffering; min (switch output off without	∞: standard	
main input)	5 min.: Require SW	
Protections against total discharge	19 - 20 Vdc batt	
Threshold alarm Battery almost flat	20 - 21 Vdc batt	
Signal Output (free switch contacts)		
Main or Backup Power	Yes	
Low Battery	Yes	
Fault Battery	Yes	
Type of Signal Output Contact		
Max. Current can be switched (EN60947.4.1):		
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	Resistive load	
Min.1mA at 5 Vdc	Min permissive	
WIIII. TITIA QUU VUC	load	
Signal Input / Output (RJ45)	iouu	
	Yes	
Temp. Comp. Battery (with external probe)		
¹ Can be adjusted via PC software mode		



Remote monitoring display	Yes
Can Bus	No



