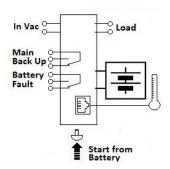
CBI126A ALL In One





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

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

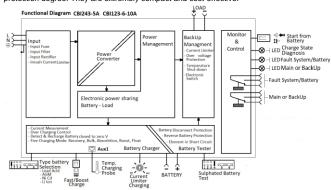
Switching technology, output voltage 10-14.4Vdc (17Vdc for Ni-Cd)

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

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; ${}_{c}$ \mathbf{M}_{us} EN60950 / UL60950-1 and CSA C22.2 No. 60950-1-07 (Information Technology Equipment) – Safety – Part1: General Requirement. Electrical safety; EN54-4 Fire Detection and fire alarm systems; 89/336/EEC EMC Directive; 2014/35/UE (Low Voltage); 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
Altitude: 0 to 2 000m - 0 to 6 560ft	No restrictions
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 / 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) I ² t	≤11 A ≤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)	12 Vdc / 6A
Output Current I _n = Iload	6 A
Efficiency (at 50% of rated current)	≥ 90 %
Residual Ripple	≤ 60 mV _{pp}
Turn-On delay after applying mains voltage	1 sec. (max)
Start up with Strong Load (capacitive load)	Yes, Unlimited
Dissipation power load max (W)	17
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 I _n)	14.4 Vdc
Max.Time Boost–Bulk charge (Typ. at IN)	15 h
Min.Time Boost–Bulk charge (Typ. at IN)	1 min.
Float charge (25 °C) (at In)	27.5 Vdc
Jumper Configuration battery type	2.23;2,25;2,27;2,3;
(V/cell)	NiCd:1,4; Li-ion 3.45
Recovery Charge	2 – 9 Vdc
Charging current max I _{batt}	6 A ± 5%
Charging current limiting I _{adj}	20 ÷ 100 % / I _{bat}
Reverse battery protection	Yes
Sulfated battery check	Yes by Jumper
Short circuit Element Detection	Yes Yes
Detection of element in short circuit Quiescent Current max.	
	≤ 100 mA
Charging Curve automatic: IUoUo	4 stage Boost / Float
Remote Input Control (RTCONN cable)	DOOSI / FIOAL
Load Output	40 44 43/ (47 10 0
Output voltage Vdc (at I _n) Nominal current I _{load}	10 - 14.4 V (17 Ni-Co
	1.1 x I _n A ± 5% 6 A
Continuous current (Without battery) I _{load=} I _n Continuous current (With battery) I _{load=} I _{n+} I _{batt}	12 A
Max. current Output Load (Main) Iload (4 sec.)	18 A max.
Max. current Output Load (Mair) Iload (4 sec.)	12 A max.
Start From Battery Without Main (Remote Input	RTCONN (cable)
Control)	Push Button
Time Buffering; min (switch output off without main	∞: standard
input)	5 min.: Require SW
Threshold alarm Battery almost flat	20 - 21 Vdc batt
LVD. (Protections against total Battery discharge)	19 - 20 Vdc batt
Signal Output (free switch contacts)	
Main or Backup Input Power	Yes
Low Battery	Yes
Fault Battery or system	Yes
Type of Signal Output Contact	<u> </u>
Dry Contact. 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 load)
Fault System / Low Battery	C NC NO
Main or Back Up	C NC NO
Signal Input / Output (RJ45)	
Temp. Comp. Battery (with external probe): Aux Out	RJ Temp (cable)
Remote monitoring LED from Front Device: Aux Out	

