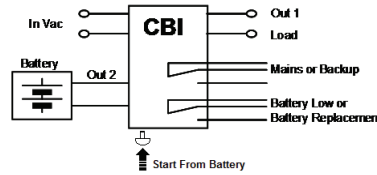


CBI126A ALL In One



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 10-14.4 Vdc
 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 I_n . 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

Ambient temperature (operation)	-25 ÷ +70°C
De Rating $T^a > 50^\circ\text{C}$	- 2.5%(In) / °C
Ambient temperature Storage	-40 ÷ +85°C
Humidity at 25 °C no condensation	95% to 25°C
Cooling	Auto convection

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^2t	≤11 A ≤5 msec.
Frequency	47 ÷ 63 Hz
Input Current (115 – 230 Vac)	2.8 – 1.3 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 (I_n)	12 Vdc / 6A
Output Current I_n	6 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)	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 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;2,3; NiCd:1,5 (10 elem.)
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
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 I_n)	10 - 14.4 Vdc
Nominal current I_{load}	1.1 x I_n 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
Protections against total discharge	9 – 10 Vdc batt
Threshold alarm Battery almost flat	10 – 11 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 Min. 1mA at 5 Vdc	Resistive load Min permissive load
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Signal Input / Output (RJ45)

Temp. Comp. Battery (with external probe)	Yes
Remote monitoring display	Yes
Can Bus	No