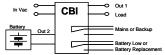
CBI485A ALL In One





Input: Single-phase 115 - 277 Vac
Output Load: power supply 48 Vdc; 5 A
Output Battery: charging 48 Vdc; 5 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 44 -57.6Vdc
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

Output Data (internal power supply)

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 / 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 61000-6-4; 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
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)	100x115x135 mm
Weight	0.85 kg approx.
Input Data	
Nominal Input Voltage Vac	115 / 230 – 277
Voltage range Vac	90 – 135
	180 – 305
Inrush Current (Vn – In nom. Load) I ² t	≤ 16 A ≤ 5 msec.
Frequency	47 ÷ 63 Hz
Input Current (115 – 230 Vac)	3.3 – 2.2 A
Internal fuse (not replaceable)	6.3 A
External Fuse (recommended) MCB curve B	16 A

Output Data (internal power supply)	
Output Voltage (Vn) / Nominal Current (In)	48 Vdc / 5A
Output Current In	5 A
Efficiency (at 50% of rated current)	≥ 83 %
Turn-On delay after applying mains voltage	1.5 sec. (max)
Start up with Strong Load (capacitive load)	Yes, Unlimited
Dissipation power load max (W)	28
Short-circuit protection)	Yes
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 90 Vdc)
Overheating Thermal protection	Yes
Battery Output	
Boost charge (25 °C) (at I _n)	57.6 Vdc
Max. time Bust Charge	15 h
Min. time Bust Charge	1 min.
Trickle charge (25 °C) (at I _n)	55 Vdc
Jumper Configuration battery type	2.23;2,25;2,27;2,3;
(V cell) Ni-Cd (optional)	NiCd:1,5 (40 elem.)
Recovery Charge	2 - 24 Vdc
Charging current max I _{batt}	5 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 max.	≤ 100 mA
Charging Curve automatic: IUoUo	3 stage
Remote Input Control (RTCONN cable)	Boost /Trickle
Load Output	
Output voltage (at In)	44 - 57.6 Vdc
Nominal current I _{load}	1.1 x I _n A ± 5%
Continuous current (without battery) I _{load} I _n	5 A
Continuous current (With battery) I _{load} I _{n+} I _{batt}	10 A
Max. current Output Load (Main) I _{load (4 sec.)}	10 A max.
Max. current Output Load (Back Up)I _{load (4 sec.)}	7 A max.
Remote Input Control (RTCONN cable)	Start From Battery
1	Without Main
Time Buffering; min (switch output off without	∞: standard
main input)	5 min.: Require SW
Protections against total discharge	38 - 40 Vdc batt
Threshold alarm Battery almost flat	40 - 42 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):	Resistive load
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	Min permissive
Min.1mA at 5 Vdc	load
Signal Input / Output (RJ45)	
Temp. Comp. Battery (with external probe)	Yes
Remote monitoring display	Yes
Can Bus	No