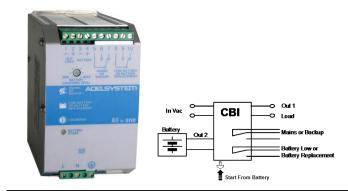
CBI245A ALL In One



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 Autodiagnostic 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; Rus 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%(ln) / °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)	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	≤11 A ≤5 msec.
Frequency	47 ÷ 63 Hz
Input Current (115 – 230 Vac)	2.76 – 1.38 A
Internal fuse (not replaceable)	4 A
External Fuse (recommended) MCB curve B	10 A

ADELSYSTEM

Input: Single-phase 115 - 277 Vac Output Load: power supply 24 Vdc; 5 A Output Battery: charging 24 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 22-28.8Vdc (31Vdc for Ni-Cd) 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)

Output Data (internal power supply)	
Output Voltage (Vn) / Nominal Current (In)	24 Vdc / 5A
Output Current In	5 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 In)	28.8 Vdc
Max. time Bust Charge	15 h
Min. time Bust Charge	1 min.
Trickle charge (25 °C) (at In)	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	5 A ± 5%
Charging current limiting l _{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.	
Charging Curve automatic: IUoUo	<u>≤ 100 mA</u> 3 stage
Remote Input Control (RTCONN cable)	Boost /Trickle
	Boost / Ifickle
Load Output	
Output voltage (at In)	22 - 28.8 Vdc (31Vdc for Ni-Cd)
Nominal current I _{load}	1.1 x In A ± 5%
Continuous current (without battery) I _{load} I _n	5A
Continuous current (With battery) $I_{load=} I_{n+}$ Continuous current (With battery) $I_{load=} I_{n+} I_{batt}$	10 A
Max. current Output Load (Main) I _{load (4 sec.)}	15 A max.
Max. current Output Load (Main) Iload (4 sec.) Max. current Output Load (Back Up)Iload (4 sec.)	10 A max.
Push Button or	Start From Battery
Remote Input Control (RTCONN cable)	Without Main
Time Buffering; min (switch output off without main	∞: standard
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
	Yes
Fault Battery	100
Type of Signal Output Contact	
Max. Current can be switched (EN60947.4.1):	Desistive lead
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A	Resistive load
Min.1mA at 5 Vdc	Min permissive load
Signal Input / Output (RJ45)	
Temp. Comp. Battery (with external probe)	Yes
Remote monitoring display	Yes
Can Bus	No