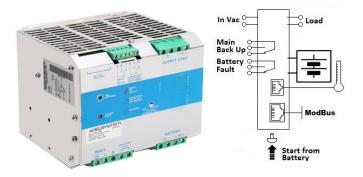
CBI1235A ALL In One



Input: Single-phase 115 - 277 Vac; 550W Output Load: power supply 12 Vdc; 35 A Output Battery: charging 12 Vdc; 35 A

Suited for the following battery types: Open Lead Acid, Sealed

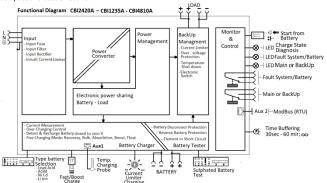
Lead Acid, Lead Gel, Li-Ion and Ni-Cd

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

Switching technology, output voltage 10-14.4 Vdc 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 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 and Li-Ion. 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 provides IP20 protection degree. They are extremely compact and cost-effective.



Norms and Certifications

Ambient temperature (operation)

In Conformity to: £%us EN60950 / UL60950-1 and CSA C22.2 No. 60950-1-07 $(Information\ Technology\ Equipment) - Safety - Part 1:\ General\ Requirement.\ Electrical$ safety; EN54-4 Fire Detection and fire alarm systems; 2014/30/EU EMC Directive; 2014/35/EU Low Voltage Directive; Safety EN IEC 62368-1: 2014/AC:2015; DIN41773 (Charging cycle); Emission: IEC 61000-6-4; Immunity: IEC 61000-6-2. CE.

Climatic Data

- 2 5%(In) / °C		
- 2.5%(In) / °C		
-40 ÷ +85°C		
95% to 25°C		
No restrictions		
De-rating 5°C/1000m		
Auto		
3000 Vac		
2000 Vac		
500 Vac		
500 Vac		
IP20		
> 300.000 h		
2		
2,5mm(24-14AWG)		
I, with PE		
150x115x135 mm		
1.55 kg approx.		
115 – 230– 277		
90 – 135 180 – 305		
≤ 35 A ≤ 5 msec.		

Fraguency	47 : 62	11-		
Frequency		47 ÷ 63 Hz		
Input Current (115 – 230 Vac)	9 – 4.	5 A		
Internal fuse (not replaceable)	10 A			
External Fuse (recommended) MCB curve B	16 A			
Output Data (internal power supply)				
Output Voltage (Vn) / Nominal Current (In)	12 Vdc			
Output Current I _n = Iload	35 A			
Efficiency (at 50% of rated current)	≥91%			
Ripple and Noise (20 MHz Bandwidth)		p (max)		
Turn-On delay after applying mains voltage	1 sec. (
Start up with Strong Load (capacitive load)		nlimited		
Dissipation power load max (W)	48			
Short-circuit protection)	Yes			
Over Load protection	Yes			
		- 2F Vd	a\	
Over Voltage Output protection		p. 35 Vd	ic)	
Overheating Thermal protection	Yes			
Battery Output				
Output Voltage Battery	Follow the	Out Load	ł	
Boost-Fast charge Jumper Configuration 25°C	Lead Acid: 2	2.4		
(V/cell). Jumper Configuration battery type	NiCd:1.45;			
Float Charge Jumper Configuration 25°C	Lead Acid: 2	2.23;2.25	5;2.3	
(V/cell) Jumper Configuration battery type	NiCd:1.4; Li	i-ion: 3.4	15	
Max.Time Boost–Bulk charge (Typ. at IN)	15 h			
Min.Time Boost–Bulk charge (Typ. at IN)	1 min.			
Recovery Charge	2 – 10	Vdc		
Charging current max I _{batt}	35 A ±	5%		
Charging current limiting I _{adj}	10 ÷ 10	00 % / Iba	at	
Reverse battery protection	Yes			
Sulfated battery check	Yes by	Jumper		
Short circuit Element Detection	Yes			
Detection of element in short circuit	Yes			
Quiescent Current max.	≤ 100 r	nΑ		
Charging Curve automatic: IUoU	4 stage	:		
Remote Input Control (RTCONN cable)	Boost			
Load Output				
Output voltage Vdc (at In)	10 – 14	I.4 V (17	Ni-C4)	
Nominal current I _{load}		A ± 5%		
Continuous current (Without battery) I _{load=} I _n	35 A	A 13/		
Continuous current (With battery) I _{load=} I _{n+} I _{batt}	70 A			
Max. current Output Load (Main) I _{load = In + I_{batt} (4 sec.)}	105 A ı	max.		
Max. current Output Load (Back Up) I _{load = In+} I _{batt (4 sec.)}	70 A m			
Start From Battery Without Main (Remote Input Contr		N (cable	١.	
Start From Battery Without Main (Remote input conti	Push B		-1	
Time Buffering; min (switch output off without main		;10;15;	20- 30-	
input)	45;60;		_0, 00,	
Threshold alarm Battery almost flat		12 Vdc k	att	
LVD. (Protections against total Batt. discharge)		Vdc ba		
	10 11	. vac ba	••	
Signal Output (free switch contacts)				
Main or Backup Input Power	Yes			
Low Battery	Yes			
Fault Battery or system	Yes			
Type of Signal Output Contact				
Dry Contact. Current can be switched (EN60947.4.1): N		Vdc 1 A	; AC1: 60	
Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permi	ssive load)			
Fault System / Low Battery	С	NC	NO	
Main or Back Up	С	NC	NO	
Signal Input / Output (RJ45)				
Temp. Comp. Battery (with external probe)	RJ Tem	p (cable) Aux 1	
Remote monitoring data:		RJ45: Aux 2 ModbusRTU		
Protocol:	(RS485			
<u> </u>	,	•		

