## (V/cell) Jumper Configuration battery

2.27;2.3 NiCd:1.4; Li-ion: 3.45 15 h

Output Load: powers Tippety Browston Bullo otherge (Typ. at IN) Output Battery: clvaingTingn & 28 to dot, - 180 ulk charge (Typ. at IN) 1 min. 2 - 20 Vdc Suited for the following by Cleary grypes: Open Lead Acid, Sealed

Input: Single-phast≱PL15 – 277 Vac

Start from Battery

25 A ± 5% Lead Acid, Lead Gehalriglog aurode Mit-Gobax Ibatt 10 ÷ 100 % / Ibat Automatic diagnoshio gingathery status in Charging curve IUoU,

constant voltage and constant current Battery Life Test function Yes

(Battery Care) Sulfated battery check Yes Enabling by Switching technology, output voltage 10-14.4Vdc Three charging Jumper Yes

levels: Boost, Floathand die cuit legment Detection Yes Protected against Detection cofted and antiented opportunity t Signal output (contraintsfreed) Cornelist Imaaged or damaged battery ≤ 100 mA Signal output (contractgfnget) floversains northack-Ud P 5 stage

Protection degree HPAOteDHN unito Space (RAVIOSIN cable)

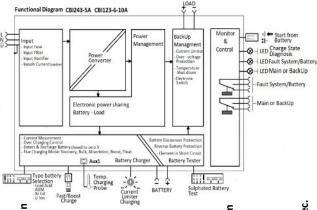
**Boost / Float** 

## **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 provides IP20 protection degree. They are extremely compact and cost-effective.

CBI1210A ALL In One

Main



Norn and Certifications	mn 77
IngConformity to: 191 s EN60950 / UL6095	50- <b>1</b> ja a a a d C S A C 2 . 2
୍ଲ ଅ <b>୬</b> ଲ୍ଲି. <b>6</b> 0950ଜ୍ଲୀ- <b>ନ୍ମ</b> 7 (Information <b>≅</b> chn <mark>ଧ</mark> ogy)	⊑oglip∰ent 💝 անaYet🗭
::문-유Part1: 含ente 명 IRosquire ment. Ente entrig	gal—sa£cety; "EleoctnicaB
្សីនស្ថិតម្លី: EN 124 24 gand Est 121 នៅ អ៊ី 0; 8 1 3 3 6 1	<b>EE</b> C <b>E</b> MC <b>D</b> irective !
ਾ2ਰਾਮ 4ਾ35/Uਾ ਦੇ ਕਾ(Lਾਰਿਆ "Voltage),^ 'Safety" -	ENF 9EC 762368/17
2014/AC:2015; DIN41773 (Charging cy	cle); Emission: IEC
_61000-6-3; Immunity: IEC 61000-6-2. CE	
0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

6 1000-6-3, Illinjunity, 15, 6 1000-6-2. CE.						
Climatic Data	∑ jii	,pe	<b>-</b>			
Ambient tempe∰atu	reမြို့ဝန်းeration)	,T	-25 ÷ +70°C			
De Rating T <sup>2</sup> 2568°C	Ba p t	d) Tew	- 2.5%(In) / ℃ ල			
ar & D	4 & UK U	s sci	ن ک			
	5 a 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 e	ac			

		22 20 0 V /21 N: C
Output voltage Vdc (at In) Ambient temperature Storage	-40 ÷ +85°C	<del>-22 - 2</del> 8.8 V (31 Ni-Ci <del>-1.1 x</del> I <sub>n</sub> A ±5%
Humidity at 25 °C no condensation,	95% to 25°C battery) had In No restrictions	1.1 X In A I 5%
Altitude: 0 to 2 000m - 0 to 6 560ft  Continuous current (Without Altitude: 0 to 2 000m - 0 to 6 560ft)	No restrictions	40 A
Altitude: 2 000 to 6 000m - 6 560 to 20	De-rating	
Max. current Output Load (M.	5°C/1000m	<del>60 A m</del> ax.
Cooling Max current Output Load (Ra		on 40 A max.
General Data		
Insulation voltage (10) 70UT) Start From Battery Without M	3000 Vac	RTCONN (cable)
Insulation voltage (Input / Earth, PE)	2000 Vac	Push Button
Insulation voltage (Out Load & Battery / Time Buffering; Min (switch o	utput off	0.5;2;5;10;15; 20; 3
without main input)		<u>45;60;</u> ∞
Insulation voltage (Out Load & Battery /	st flat <b>Vac</b>	21 – 22 Vdc batt
Fault System & Main or Back Up terminal)	l Batt.	<u>19 – 2</u> 0 Vdc batt
Protection Class (EN/IEC 60529)	IP20	
Reliability: MTBF IEC 61709	> 300.000 h	
Pollution Degree Environment	2	Yes
Connection Terminal Blocks screw Type	2,5mm(24–	Yes
Fault Battery or system Protection class (PE Connected)	14AWG)	Yes_
	I, with PE	
Dimensions (w-h-d) Dry Contact. Current can be so	<del>vitsuea (ENeo</del> a	<del>[7.4.1</del> ): Max: DC1:
Weight 30 Vdc 1 A; AC1: 60 Vac 1A (F	kesistKe 18869Xv	lin: 1mA at 5 Vdc
Input Data (Min permissive load)	115 _ 220 277	<del></del>
Nominal Input Voltage Vac / Low Battery	115 – 230– 277 90 ÷ 305	
Voltage range Variain or Back Up		<u>C</u> NC NO
Inrush Current (Vn – In nom. Load) I²t	≤11 A ≤5 ms	
Frequency Temp. Comp. Battery (with ex	<u>ternāl (sr. 613e)</u>	RJTemp xxx
Input Current (\$15 A2205027736(4R) Max	2.8- 1.5 - 1.38	<del></del> -
Internal fuse (noteinplacent) MCR surve R		Aux 2 Modbus RTU (RS485)
External Fuse (recommended) MCB curve B	10 A	(113403)
Output Voltage (Vn) / Nominal Current (L)	12 Vdc / 10A	<del></del>
Output Voltage (Vn) / Nominal Current (In)	12 VUC / 1UA	
Output Current L = llead	10 A	
Output Current I <sub>n</sub> = Iload  Efficiency (at E0% of rated current)	10 A	
Efficiency (at 50% of rated current)	≥ 90 %	<u> </u>
Efficiency (at 50% of rated current) Ripple and Noise (20 MHz Bandwidth)	≥ 90 % 80 mV <sub>pp</sub> (max)	
Efficiency (at 50% of rated current) Ripple and Noise (20 MHz Bandwidth) Turn-On delay after applying mains voltage	≥ 90 % 80 mV <sub>pp</sub> (max) 1 sec. (max)	
Efficiency (at 50% of rated current) Ripple and Noise (20 MHz Bandwidth) Turn-On delay after applying mains voltage Start up with Strangiane Linguign pacitive densities.	≥ 90 % 80 mV <sub>pp</sub> (max) 1 sec. (max) Yes, Unlimited	
Efficiency (at 50% of rated current) Ripple and Noise (20 MHz Bandwidth) Turn-On delay after applying mains voltage Start up with Strongilned Gapacitive Leadver Dissipation powes load max (W) 24 Vdc - 10	≥ 90 % 80 mV <sub>pp</sub> (max) 1 sec. (max) Yes, Unlimited 17 6	<u>4264</u> 0h 883243l
Efficiency (at 50% of rated current) Ripple and Noise (20 MHz Bandwidth) Turn-On delay after applying mains voltage Start up with Strongilned Gapacitive Leadver Dissipation powes load max (W) 24 Vdc - 10	≥ 90 % 80 mV <sub>pp</sub> (max) 1 sec. (max) Yes, Unlimited 17 6	<u>4264</u> 0h 883243l
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Efficiency (at 50% of rated current) Ripple and Noise (20 MHz Bandwidth) Turn-On delay after applying mains voltage Start up with Strongilned Gapacitive Leadver Dissipation powes load max (W) 24 Vdc - 10	≥ 90 % 80 mV <sub>pp</sub> (max) 1 sec. (max) Yes, Unlimited 17 6	<u>4264</u> 0h 883243l
Efficiency (at 50% of rated current)  Ripple and Noise (20 MHz Bandwidth)  Turn-On delay after applying mains voltage  Start up with Strongiened frapacitive depender  Dissipation power load max (W) 24 Vdc - 10  Current Short Circoit Icc. Max 2 sec 24 vdc - 10  Over Load protention 3 24 Vdc - 20  Over Voltage Output Residention	≥ 90 % 80 mV <sub>pp</sub> (max) 1 sec. (max) Yes, Unlimited 17 6	<u>4264</u> 0h 883243l



No restrictions

6 560 to to 6 560f1

ndensation

40 ÷ +85°C

Float Charge Jumper Configuration	Lead Acid: 2.23;		
25°C (V/cell)	2.25;2.27;2.3		
Jumper Configuration battery type	NiCd:1.4; Li-ion: 3.45		
Max.Time Boost–Bulk charge (Typ. at II			
Min.Time Boost–Bulk charge (Typ. at IN			
Recovery Charge	2 – 10 Vdc		
Charging current max I <sub>batt</sub>	10 A ± 5%		
Charging current limiting I <sub>adj</sub>	20 ÷ 100 % / I <sub>bat</sub>		
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 mA		
Charging Curve automatic: IUoU	4 stage		
Remote Input Control (RTCONN cable)	Boost / Float		
Load Output	•		
Output voltage Vdc (at In)	10 - 14.4 V (17 Ni- Cd)		
Nominal current I <sub>load</sub>	$1.1 \times I_n A \pm 5\%$		
Continuous current (Without battery) I	load= In 10 A		
Continuous current (With battery) I <sub>load=</sub>			
Max. current Output Load (Main) I <sub>load =</sub> I <sub>batt (4 sec.)</sub>	I <sub>n+</sub> 30 A max.		
Max. current Output Load (Back Up)I <sub>loa</sub>	<sub>d =</sub> I <sub>n +</sub> 20 A max.		
Start From Battery Without Main (Rem	ote RTCONN (cable)		
Input Control)	Push Button		
Time Buffering; min (switch output off	∞: standard		
without main input)	5 min.: Require SW		
Threshold alarm Battery almost flat	11.5 – 12 Vdc batt		
LVD. (Protections against total Battery discharge)	10 – 11 Vdc batt		
Signal Output (free switch contacts)			
Main or Backup Input Power	Yes		
Low Battery	Yes		
Fault Battery or system	Yes		
	Tes		
Type of Signal Output Contact	ENGO047 4 1\: May: DC1:		
Dry Contact. Current can be switched (			
30 Vdc 1 A; AC1: 60 Vac 1A (Resistive le	Dau J IVIIN: 1MA at 5 VCC		
(Min permissive load)	C NO 110		
Fault System / Low Battery	C NC NO		
Main or Back Up	C NC NO		
Signal Input / Output (RJ45)			
Temp. Comp. Battery (with external pro Aux Out	obe): RJ Temp (cable)		
Remote monitoring LED from Front De Aux Out	vice: RJ 45 (cable)		
Accessory			
	ttery Length 1m. Jumper		
RJTEMP451 <b>Temperature Probe</b>	Length 1m.		
	·		
DPY353 Display for: Monitoring the Battery state,			
Battery Charging Se			

<sup>1</sup>Can be adjusted via PC software mode

All specifications are subject to change without notice CBI1210A Data sheet \_R37.docx



**ADELSYSTETT**