Output Load: power supply 24 Vdc; 10 A Output Battery: charging 24 Vdc; 10 A

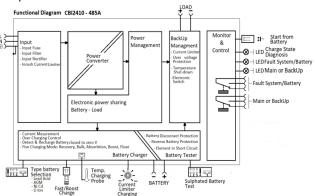
Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, Lead Gel, Li-Ion and Ni-Cd

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

Switching technology, output voltage 22-28.8Vdc Five charging levels: Boost, Bulk, Absorption, 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 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.



Norms and Certifications

In Conformity to: EN60950 / UL60950-1 and CSA C22.2 No. 60950-1-07 (Information Technology Equipment) - Safety - Part1: General Requirement. Electrical safety; Electrical safety: EN54-4 and EN12101-10; 89/336/EEC EMC Directive; 2014/35/UE (Low Voltage); Safety EN IEC 62368-1: 2014/AC:2015; DIN41773 (Charging cycle); Emission: IEC 61000-6-3; Immunity: IEC 61000-6-2. CE.

Climatic Data

Ambient temperature (operation)	-25 ÷ +70°C
De Rating Ta > 50°C	- 2.5%(In) / °C

Ambient temperature Storage	-40 ÷ +85°C
Humidity at 25 °C no condensation	95% to 25°C
Altitude: 0 to 2 000m - 0 to 6 560ft	No restrictions
Altitude: 2 000 to 6 000m - 6 560 to 20	De-rating
000ft	5°C/1000m
Cooling	Auto convention
General Data	
Insulation voltage (IN/OUT)	3000 Vac
Insulation voltage (Input / Earth, PE)	2000 Vac
Insulation voltage (Out Load & Battery /	500 Vac
Earth, PE)	
Insulation voltage (Out Load & Battery /	500 Vac
Fault System & Main or Back Up terminal)	
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	\leq 16 A \leq 5 msec.
Frequency	47 ÷ 63 Hz
Input Current (115 – 230 – 277 Vac) Max	5 – 2.5 A
Internal fuse (not replaceable)	6.3 A
External Fuse (recommended) MCB curve E	3 16 A
Output Data (internal power supply)	
Output Voltage (Vn) / Nominal Current (In)	24 Vdc / 10A
Output Current I _n = Iload	10 A
Efficiency (at 50% of rated current)	≥ 83 %
Ripple and Noise (20 MHz Bandwidth)	80 mV _{pp} (max)
Turn-On delay after applying mains voltage	
Start up with Strong Load (capacitive load)	Yes, Unlimited
Dissipation power load max (W)	38
Current Short Circuit Icc. Max 2 sec.: Hiccur	In x 3.5
mode 60°C. Restart automatically.	
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 35 Vdc)
Overheating Thermal protection	Yes
Battery Output	
	llow the Out Load
	ad Acid: 2.4
	Cd:1.51; Li-ion: 3.65
· · · · · · · · · · · · · · · · · · ·	•

ADELSYSTETT

¹Can be adjusted via PC software mode



Configuration battery type

+65 6871 4140

+971 4 401 8484

New Zealand

	per Configuration		ead Acid: 2.23;				
25°C (V/cell)			2.27;2				
Jumper Configura	ition battery type Bulk charge (Typ. at IN)		1.4; I 15 h	Li-ion: 3	3.45		
	Bulk charge (Typ. at IN)		1 mir				
Recovery Charge			2 – 20				
Charging current				± 5%			
Charging current	-			100 % /	l _{bat}		
Reverse battery p			Yes				
Sulfated battery of			Yes b	y Jump	er		
Short circuit Elem	ent Detection		Yes				
Detection of elem	nent in short circuit		Yes				
Quiescent Curren	t max.		≤ 100) mA			
Charging Curve at	utomatic: IUoU		5 sta	ge			
Remote Input Cor	ntrol (RTCONN cable)		Boos	t / Floa	t		
Load Output							
Output voltage Vo	dc (at I _n)		22 - 2	28.8 V (31 Ni-		
			Cd)				
Nominal current I	load		1.1 x	In A ±	5%		
Continuous curre	nt (Without battery) Ilo	_{ad=} I _n	10 A				
Continuous curre	nt (With battery) I _{load=} I	n +	20 A				
I _{batt}							
Max. current Out	put Load (Main) I _{load =} I _r	1+	30 A	max.			
l _{batt} (4 sec.)							
Max. current Out	put Load (Back Up)I _{load}	= I _{n +}	20 A	max.			
I _{batt (4 sec.)}							
Start From Batter	y Without Main (Remo	te	RTCC	NN (ca	ble)		
Input Control) Or			CBI24	410A/S			
	nin (switch output off		∞: st	andard			
without main inp	ut)		5 mir	ո.։ Req	uire		
			SW				
	Battery almost flat			22 Vdc			
	against total Battery		19 – 2	20 Vdc	batt		
discharge)							
Signal Output (free							
Main or Backup Ir	nput Power		Yes				
Low Battery			Yes				
Fault Battery or s	ystem		Yes				
Type of Signal Outp	out Contact						
Dry Contact. Curr	ent can be switched (El	N6094	17.4.1): Max:	DC1:		
	60 Vac 1A (Resistive lo	ad) N	lin: 1n	nA at 5	Vdc		
(Min permissive l	oad)						
Fault System / Lo	w Battery		С	NC	NO		
Main or Back Up			С	NC	NO		
Signal Input / Outp	ut (RJ45)						
Temp. Comp. Bat	tery (with external prol	be):	RJ Te	mp (ca	ble)		
Aux Out							
Remote monitori	ng LED from Front Devi	ce:	RJ 45	(cable)		
Aux Out							
Accessory							
RTCONN	Cable Start from bat	tery L	ength	1m. Ju	mper		
	6						
RJTEMP451	Temperature Probe	Temperature Probe Length 1m.					
RJTEMP453	Temperature Probe	Lengt	h 3m.				
RJ45COUPLER		way "Daisy Chain" for Aux 2					
DPY353	Display for: Monitoring the Battery state,						
	Battery Charging Sec	_		•			
MR300	Automatic Input ran		or Bri	ide			
	connection.						
-							

¹Can be adjusted via PC software mode

All specifications are subject to change without notice CBI2410A Data sheet _R37.docx

