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

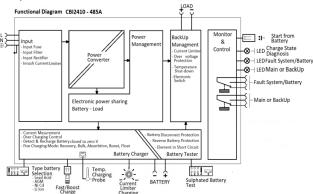
Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, Lead Gel, Li-Ion and Ni-Cd

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

Switching technology, output voltage 44 - 57.6Vdc 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: PN 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 T ^a > 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	≤ 16 A ≤ 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 B	16 A
Output Data (internal power supply)	
Output Voltage (Vn) / Nominal Current (In)	48 Vdc / 5A
Output Current I _n = Iload	5 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	1.5 sec. (max)
Start up with Strong Load (capacitive load)	Yes, Unlimited
Dissipation power load max (W)	38
Current Short Circuit Icc. Max 2 sec.: Hiccup	In x 3.5
mode 60°C. Restart automatically.	
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 90 Vdc)
Overheating Thermal protection	Yes
Battery Output	
	low the Out Load
	d Acid: 2.4
	d:1.51; Li-ion: 3.65
33ga. addin 23 6 (1/ 6611/1 34111pc)	

¹Can be adjusted via PC software mode



Configuration battery type

Float Charge Jump	er Configuration	Lead Acid: 2.23;				
25°C (V/cell)	ta a banta a ta a a		2.27;2			
Jumper Configurat				Li-ion: 3	3.45	
	Bulk charge (Typ. at IN ulk charge (Typ. at IN)		15 h 1 mir			
Recovery Charge	uik charge (Typ. at IIV))		ı. D Vdc		
Charging current n	nav l			± 5%		
Charging current li				100 % /	' l	
Reverse battery pr			Yes	100 /0 /	bat	
Sulfated battery ch				y Jump	er	
Short circuit Eleme			Yes	,	<u> </u>	
Detection of eleme			Yes			
Quiescent Current			≤ 100) mA		
Charging Curve au			5 stage			
	trol (RTCONN cable)			t / Floa	t	
Load Output	troi (iii comit cabic)			.,		
Output voltage Vd	c (at I _n)		44 - 57.6 V			
	output voltage vae (at III)		(58V Ni-Cd)			
Nominal current I _{ld}	oad		•	In A ±	5%	
	it (Without battery) I _{Ic}	_{nad=} I _n	5 A			
	it (With battery) I _{load=}		10 A			
I _{batt}	, , , , , , , , , , , , , , , , , , , ,					
	ut Load (Main) I _{load =} I	n +	15 A	max.		
I _{batt (4 sec.)}						
Max. current Outp	ut Load (Back Up)I _{load}	= I _{n+}	10 A	max.		
I _{batt (4 sec.)}						
Start From Battery	Without Main (Remo	ote	RTCC	NN (ca	ble)	
Input Control) Ord			CBI48	35A/S		
_	in (switch output off		∞: st	andard		
without main inpu	t)			ւ.։ Requ	iire	
			SW		_	
Threshold alarm B	·		44 – 46 Vdc batt			
•	against total Battery		40 –	42 Vdc	batt	
discharge)	ital aantaata)					
Signal Output (free			Vaa			
Main or Backup In	put Power		Yes			
Low Battery	ctom		Yes			
Fault Battery or sy			res			
Type of Signal Outpo	ent contact ent can be switched (E	NEOO	17 / 1	l· Mav·	DC1·	
	0 Vac 1A (Resistive lo					
(Min permissive lo		au , iv	1111. 111	IA at 3	vuc	
Fault System / Low			С	NC	NO	
Main or Back Up	Duttery		C	NC	NO	
Signal Input / Outpu	ıt (RJ45)					
	ery (with external pro	be):	RJ Te	mp (ca	ble)	
Aux Out	/ (p				,	
	g LED from Front Dev	ice:	RJ 45	(cable))	
Aux Out	0			•	•	
Accessory						
RTCONN	Cable Start from bat	tery L	ength	1m. Ju	mper	
	6					
RJTEMP451	Temperature Probe	Lengt	h 1m.			
RJTEMP453 Temperature Probe Length 3m.						
RJ45COUPLER RJ45 Three way "Daisy Chain" for Aux 2						
DPY353	Display for: Monitor					
Battery Charging Section.						
MR300	Automatic Input ran		for Bri	de		
	connection.					

¹Can be adjusted via PC software mode

All specifications are subject to change without notice CBI485A Data sheet _R37.docx

