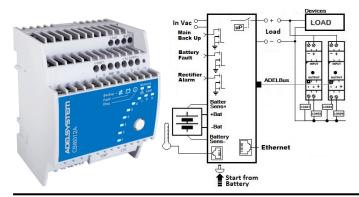
CBI6012A



Input: Single-phase 115 - 230 - 277 Vac
Output Selectable Load:12Vdc 4.5 A
Output Battery charging:12 Vdc 4.5 A
Suited for the following battery types: Open Lead
Acid, Sealed Lead Acid, lead Gel, Ni-Cd, Li-lon
Automatic diagnostic of battery status, Battery Life
Test function (internal Battery Impedance)
Charging curve IUoU, constant voltage and current
Four charging levels: Boost, Bulk, Trickle, Recovery
Protected against short circuit and inverted polarity
Signal output: for battery Fault, Mains or Back-UP
Ethernet: SNMP V3, Modbus TCP/IP, HTTPS
DIN rail and Wall mount

New revolutionary product, with Ethernet on board provided with protocol connections: HTTPS, SNMPv3, Modbus TCP. The device also features the ADELBus protocol for connecting other ADELSystem devices.

Power Management: 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 3 times the value of the device rated current In

Battery Care: it's the concept base on algorithms that implement rapid and automatic charging, four state of charge, 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 or through web server; 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 manual configuration by push botton or web server it is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd(option). They are programmed for five charging levels, recovery, boost, bulk, absorbtion, float and trickle charge, but they can be changed by the user. A rugged casing for DIN rail mounting, IP20 protection degree. They are extremely compact and cost effective.

Interconnections: The platform communication for ADELSYSTEM devices, allows the connection of all components in a simple but very powerful way, by Ethernet. A protocols communication are based on, MODbus TCP/IP, SNMP or HTTPS. You can select any of the buses depending on your application. It allows to communicate with all the accessories provided by ADELSYSTEM and to develop an independent system for electrical continuity. At the same time, it allows monitoring and control all parameters in the system, even from the other side of the world, by means of application tools on the cloud. ADELSYSTEM allows you to implement very simple but sophisticated monitoring and control for your energy system and opens your mind to new ways to approach your applications.

Norms and Certifications: The CE mark in conformity to EMC 2014/30/EU: Electromagnetic Compatibility Directive; 2014/35/EU: Low Voltage Directive; ROHS 2011/65/EU: Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS), as amended by 2015/863/EU. EMC Immunity: EN61000-6-2;EMC Emission: EN61000-6-3. According to: Electrical Equipment for Machinery EN 60204; Electrical safety (of information technology equipment) IEC/EN EN62368-1.

Climatic Data

Ambient temperature (operation)	-25 ÷ +70°C
De Rating T ^a > 55°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 000ft	De-rating 5°C/1000m
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		2,5mn	2,5mm(12-14AWG)	
Protection class		II	II	
Dimensions (w-h-d) DIN 43880	0	70x90	70x90x55 mm	
Weight (Approx.)		0.40 k	g	
Input Data				
Nominal Input Voltage (2 x \	Vac)	115 – 2	230 – 277	
Input Voltage range (Vac)		90 – 30	90 – 305	
Inrush Current (Vn – In nom. Load) I²t		≤ 10 /	≤10 A ≤5 msec.	
Frequency		47 ÷ 6	47 ÷ 63 Hz	
Input Current (115 – 230 Vac)		1-0.7	1 – 0.7 A	
Internal fuse (not replaceable)		4 A		
External Fuse (recommended)	MCB curve B	6 A		
Input Current (No Load and	Input	Input	Back Up	
Alarm)	110Vac	230Vac		
Quiescent Current	20	34	27	
Ethernet Enabled	22	34.5	33.5	
CAN Enabled	21	34	30	
ETH+CAN Enabled	23	34.5	36.5	
Output Data				
Output Voltage 12 Vdc		12 Vd	C	
Nominal current In		4,5 A =	± 5%	
Turn-On delay after applying n	nains voltage	1 sec.	(max)	
Start up with Strong Load (cap		Yes, U	nlimited	
Efficiency (at 50% of rated curi		≥ 90 %		
Ripple and Noise (20 MHz Ban	-		/ _{pp} (max)	
Dissipation power load max (V	•	6		
Start from Battery only, withou		Push E	Button	
Short-circuit protection		Yes		
Over Load protection		Yes		
Over Voltage Output protection	n		Yes (typ. 35 Vdc)	
Overheating Thermal protection		Yes	•	
Load Output 12 Vdc (jum				
Output voltage (at In)			1.4 Vdc (17Vdc Ni-Cd)	
Nominal Current In			n A ± 5%	
Continuous current (without b	attery) I _{load=} I _n	5 A		
Continuous current (With batt				
Max. Output Load (Main with		hatt	may (A)	
(4 sec.)		3 x I _n r	nax. (A)	
Max. current Output Load (Bad	ck Up)I _{load (4 sec.)}	2 x l _n r	nax.	
Output On/Off		Yes: D	rive by Ethernet	
Push Button –Terminal Input "	Start from Batte	ery Yes		
without main"		res		
Time Buffering; (switch output	off without ma	in 0.5;2;	5;10;15; 20; 30;	
input)		45;60;	∞	
Battery Output				
Output Voltage Battery		Follow	the Out Load	
Boost-Fast charge Configuration 25	5°C (V/cell). Jump		Acid: 2.4	
Configuration battery type		NiCd:1	L.51; Li-ion: 3.65	
Float Charge Configuration 25°C (V		Lead		
Jumper Configuration battery	type		.23;2.25;2.27;	
			Cd:1.4; Li-ion:	
		3.45		
Min. Time Boost/Fast charge (Typ. at IN)	1 min.		

1 min.	
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