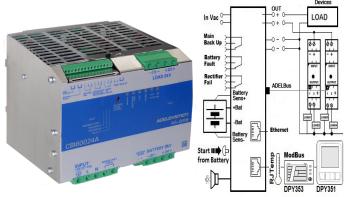
CBI60024A Plus



Input: Single-phase 115 – 277 Vac; 600W Output Load: power supply 24 Vdc; 25 A Output Battery: charging 24 Vdc; 25 A

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

Automatic diagnostic of battery status.

Charging curve IUoU, constant voltage and constant current **Battery Life Test function (Battery Care)**

Switching technology Four charging levels: Recovery, Bulk, Absorption, Boost, and Float

Protected against short circuit and inverted Batt. polarity Signal output (contact free) for discharged or damaged battery Signal output (contact free) for Mains or Back-UP Modbus RTU for all parameter, Battery and System

Ethernet: SNMP V3, Modbus TCP/IP, HTTPS Protection degree IP20 - DIN rail; Space saving

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.

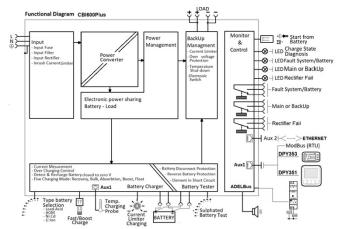
Power Management: Thanks to the All In One units (DC-UPS), it will be possible to optimize power management. The available power is automatically allocated between load and battery, supplying power to the load is the first priority of the unit thus it is not necessary to double the power, because also 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 button 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, absorption, 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 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 000ft	De-rating 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, Aux2 /	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
Connect Terminal Blocks screw Type Signal	2,5mm(24-14AWG)
Connect Terminal Blocks screw Type Power	4 mm (30-10 AWG)
Protection class (PE Connected)	I, with PE
Dimensions (w-h-d)	150x115x135 mm
Weight	1.55 kg approx.
Input Data	
Nominal Input Voltage Vac	115 – 230 – 277
Voltage range Vac	90 - 135 : 180 - 305
Power Factor typ. (115 – 230 Vac)	0.6 - 0.5
Input Inrush Current Limiter	NTC
Inrush Current (Vn – In nom. Load) I2t	≤35 A ≤5 msec.



Fraguency	47 ÷ 63 Hz
Frequency Input Current (115 – 230 Vac)	9 - 4.5 A
Internal fuse (not replaceable)	10 A
External Fuse (recommended) MCB curve B	
Output Data (internal power supply)	
Output Voltage (Vn) / Nominal Current (In)	24 Vdc
Output Current I _n = Iload	25 A
Efficiency (at 50% of rated current)	≥91%
Residual Ripple	≤ 80 mV _{pp}
Turn-On delay after applying mains voltage	
Start up with Strong Load (capacitive load)	Yes, Unlimited
Dissipation power load max (W)	48
Short-circuit protection (max current)	Yes (70 A)
Over Load protection (max current)	Yes (60 A)
Over Voltage Output protection	Yes (typ. 35 Vdc)
Overheating Thermal protection	Yes
Battery Charge	
Output Voltage Battery	Follow the Out Load
Boost/Fast charge Jumper Config. 25°C	Lead Acid: 2.4
(V/cell).	NiCd:1.51; Li-ion: 3.65
Float Charge Jumper Configuration 25°C	Lead Acid: 2.23; 2.25;
(V/cell) Jumper Configuration battery	2.27;2.3
type	NiCd:1.4; Li-ion: 3.45
Max.Time Boost–Bulk charge (Typ. at IN)	15 h
Min.Time Boost–Bulk charge (Typ. at IN)	1 min.
Recovery Charge	2 – 20 Vdc
0 0	25 A ± 5%
Charging current limiting I _{adj}	10 ÷ 100 % / I _{bat}
Reverse battery protection	Yes
Quiescent Current max.	≤100 mA
Charging Curve automatic: IUoU	5 stage
Remote Input Control (RTCONN cable)	Boost / Float
Battery charge temperature	RJTemp 451 or 453
compensated. External probe	Aux1
Battery Testing	Van
Sulfated battery check (SoH)	Yes
Short circuit Element Detection	Yes
Detection of element in short circuit	Yes
Refresh Battery (must enabled Fast	Every 288 hours
Charge)	V
State of Charge (SoC)	Yes
Low Battery Capacity warning	Yes 21 – 22 Vdc hatt
Threshold alarm Battery almost flat	21 – 22 Vdc batt 19 – 20 Vdc batt
	15-20 VUC DALL
LVD. (Protections against total Batt.	
discharge)	Vas
discharge) Auto or manual test Mode	Yes
discharge) Auto or manual test Mode Purification Charge	Yes Yes
discharge) Auto or manual test Mode Purification Charge Load Output	Yes
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In)	Yes 22 - 28.8 V (31 Ni-Cd)
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ±5%
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iloade	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ±5% I _n 25 A
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iload= Continuous current (With battery)	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ±5%
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iload= Continuous current (With battery) Iload= In+ Ibatt	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ± 5% I _n 25 A 40 A
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iloade Continuous current (With battery) Iloade In+ Ibatt Max. current Output Load (Main) Iload (4 sec.)	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ± 5% I _n 25 A 40 A 60 A max.
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iloade Continuous current (With battery) Iloade In+ Ibatt Max. current Output Load (Main) Iload (4 sec.) Max. current Output Load (Back Up)	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ± 5% I _n 25 A 40 A
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iload= Continuous current (With battery) Iload= In+ Ibatt Max. current Output Load (Main) Iload (4 sec.) Max. current Output Load (Back Up) Iload (4 sec.)	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ±5% I _n 25 A 40 A 60 A max. 40 A max.
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iloade Continuous current (With battery) Iloade In+ Ibatt Max. current Output Load (Main) Iload (4 sec.) Max. current Output Load (Back Up) Iload (4 sec.) Start From Battery Without Main (Remote	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ± 5% I _n 25 A 40 A 60 A max.
discharge) Auto or manual test Mode Purification Charge Load Output Output voltage Vdc (at In) Nominal current Iload Continuous current (Without battery) Iload= Continuous current (With battery) Iload= In+ Ibatt Max. current Output Load (Main) Iload (4 sec.) Max. current Output Load (Back Up) Iload (4 sec.)	Yes 22 - 28.8 V (31 Ni-Cd) 1.1 x I _n A ±5% I _n 25 A 40 A 60 A max. 40 A max. RTCONN (cable)

Signal Output (dry switch co	ntacts)			
Main or Backup Input Power		Yes		
Low Battery		Yes		
Fault Battery or system		Yes		
Rectifier Alarm				
Acoustic Buzzer selectable, for:			the devi	•
Type of Signal Output Conta	ct			
Dry Contact. Current can be		60947.4.	1): Max:	DC1:
30 Vdc 1 A; AC1: 60 Vac 1A				
(Min permissive load)				
Fault System / Low Battery	,	С	NC	NO
Main or Back Up		С	NC	NO
Rectifier Fail		С	NC	NO
Communication Port: Input	/ Output (RJ45)		
Remote monitoring data Pr	rotocol:	Aux 1 Modbus RTU (RS485)		
Ethernet communication p	rotocols:	ModBus TCP/IP - SNMP V3 - HTTPS		
ADELBus			Open	
GUI				
GUI: Embedded web based	l accessed via	Web Se	rver	
Ethernet using:				
Device feature		D. 141 1	Carrie	
User configurable Alarm		By Web		
User configurable signals	1.6:	By Web	Server	
Downloadable software an	id firmware			
upgrades				
PC Shutdown or Device Shut		D. ADE	I.V.:	
PC Shutdown function to s	witch Off and		LViewSys 80 Cable	
On PC		NJUJUZ		
0 11 1 66 1 1 16 -11				
Switch off device if Etherne	et loos the	By setti	ng the de	evice.
communication	et loos the	By setti		evice.
_communication LED Indicator	et loos the			evice.
communication LED Indicator Charging Mode	et loos the	Green		evice.
communication LED Indicator Charging Mode Diagnosis	et loos the	Green Red		evice.
communication LED Indicator Charging Mode Diagnosis Battery / System fault	et loos the	Green Red Red		evice.
communication LED Indicator Charging Mode Diagnosis Battery / System fault Mains or Back Up	et loos the	Green Red Red Yellow		evice.
communication LED Indicator Charging Mode Diagnosis Battery / System fault Mains or Back Up Rectifier fail	et loos the	Green Red Red		evice.
communication LED Indicator Charging Mode Diagnosis Battery / System fault Mains or Back Up		Green Red Red Yellow Red	ng the de	
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communication LED Indicator Charging Mode Diagnosis Battery / System fault Mains or Back Up Rectifier fail LOG File Life time Battery statistic	N° of comple aborted Char Tot. Run Time Lowest Volta Max. deep of	Green Red Red Yellow Red te Chargiging, Tote, Highes ge, N° Podischarg	ing, N° o . Amper t Voltag ower Boo ge, Avera	of ee hours, ee, ost, age
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communication LED Indicator Charging Mode Diagnosis Battery / System fault Mains or Back Up Rectifier fail LOG File Life time Battery statistic History:	N° of comple aborted Char Tot. Run Time Lowest Volta Max. deep of deep of disch	Green Red Red Yellow Red te Chargiging, Tote, Highes ge, N° Pc dischargarge, overten e Vac is	ing, N° o Amper t Voltag ower Boo ge, Avera	ost, age
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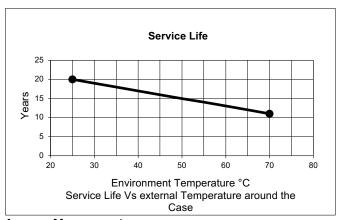


Alarm Load Log:	Output in Short circuit, Output in overload.
Notification	Email Alarm

Lifetime Expectancy

Life Time Expectancy defines the minimum life expectancy of the device in hours of operation. Being a device designed with electrolytic capacitors, the maximum duration is defined at 15 years - 131,400 h. Any value higher than this is to be considered only as a theoretical duration, calculated to be able to compare devices with each other.

Ambient temp.	Out Power	115Vac	230Vac
25°C	24 Vdc - 10 A	642640h	883243h
25°C	24 Vdc - 20 A	158844h	634203h
40°C	24 Vdc - 10 A	187139h	292603h
40°C	24 Vdc - 20 A	25846h	182768h



Accuracy Measurement

Accuracy on the Input side

Measure of the Main Input voltage	±1%
at 47- 63Hz; ±25°C; 90 – 305 Vac	of Full Scale Vac
Accuracy on the output side	
Measure of the Output voltage Load Side	± 1.5% of Full
Range: 10 - 33Vdc	Scale Vdc Out
Measure of the Output current Load Side	± 1.5% of Full
Range: 0 - 70A	Scale I Out
Measure of the Output voltage Battery Side	± 1.5% of Full
Range: 0 - 33V	Scale Vdc Out
Measure of the Output current Battery Side	± 1.5% of Full
Range: 0 - 30A	Scale I Out
Temperature Probe	±2°C
Range:-20 – 60°C	

F	Accesso	ry	

,	
RTCONN	Cable Start from battery Length 1m. Jumper 6
RJTEMP451	Temperature Probe Length 1m.
RJTEMP453	Temperature Probe Length 3m.
RJCONN45	Cable RJ45/RJ45 for Parallel Connection or
	connection to DPY351
RJ45COUPLER	RJ45 Three way "Daisy Chain" for Aux 2
RJUSB280	Cable RJ45/USB (Aux2) Length 1m for connection
	to PC.
RJTB280	Connector RJ45/Terminal Block 4pin for Aux 2
	To RS485 ModBus RTU
ADELViewsystem	PC App for: Monitoring, Logging, Configuration,
	Control, Alarm, of the devices in ADELBus network.
DPY351	HMI panel control for: Monitoring, Logging,
	Configuration, Control, Alarm, of the devices in
	ADELBus network.
DPY353	Display for: Monitoring the Battery state, Battery
	Charging Section.

