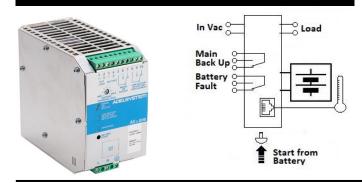
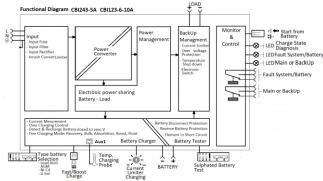
## CBI243A ALL In One



## **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: CNL ENGOSO / UL60950-1 and CSA C22.2 No. 60950-1-07 (Information Technology Equipment) – Safety – PartI: General Requirement. Electrical safety; EN54-4 Fire Detection and fire alarm systems; 89/336/EEC EMC Directive; 2014/35/UE (Low Voltage); Safety EN IEC 63268-1: 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 <sup>a</sup> > 50°C	- 2.5%(In) / °C	
Ambient temperature Storage	-40 ÷ +85°C	
Humidity at 25 °C no condensation	95% to 25°C No restrictions	
Altitude: 0 to 2 000m - 0 to 6 560ft		
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 / Earth, PE)	500 Vac	
Insulation voltage (Out Load & Battery / Fault System &	500 Vac	
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)	l, with PE	
Dimensions (w-h-d)	65x115x135 mm	
Weight	0.6 kg approx.	
Input Data		
Nominal Input Voltage Vac	115 - 230- 277	
Voltage range Vac	90 ÷ 305	
Inrush Current (Vn – In nom. Load) I <sup>2</sup> t	$\leq$ 11 A $\leq$ 5 msec.	
Frequency	47 ÷ 63 Hz	
Input Current (115 – 230 – 277 Vac) Max	2.8 – 1.7 - 1.3 A	

Input: Single-phase 115 – 277 Vac

Output Load: power supply 24 Vdc; 3 A

Output Battery: charging 24 Vdc; 3 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 (Battery Care)

Switching technology, output voltage 22-28.8Vdc Three charging levels: Boost, 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

Internal fuse (not replaceable)   4 A     External Fuse (recommended) MCB curve B   10 A     Output Voltage (Nr)/ Nominal Current (In)   24 Vdc / 3A     Output Current In, = Iload   3 A     Efficiency (at 50% of rated current)   ≥ 90 %     Residual Ripple   ≤ 60 mV <sub>20</sub> Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   13     Short-Circuit protection)   Yes     Over Load protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Lumper Configuration 25°C   Lead Acid: 2.24     (V/cell). Jumper Configuration battery type   NiCd:1.51; Li-Ion: 3.65     Float Charge Lumper Configuration 25°C (V/cell)   Lead Acid: 2.24     U/vcell). Jumper Configuration S2°C (V/cell)   Lead Acid: 2.24     Jumper Configuration S2°C (V/cell)   Lead Acid: 2.24     Min. Time Boost-Buik charge (Typ. at IN)   15 h     Max. Time Boost-Buik charge (Typ. at IN)   15 h     Min.Time Boost-Buik charge (Typ. at IN)   15 h     Max. Time Boost-Buik cha	Internal fuce (not replaceable)	4 A		
Output Voltage (Vn) / Nominal Current (In)     24 Vdc / 3A       Output Voltage (Vn) / Nominal Current (In)     24 Vdc / 3A       Output Current In = Iload     3 A       Efficiency (at 50% of rated current)     2 90 %       Residual Ripple     \$ 60 mVyp       Turn-On delay after applying mains voltage     1 sec. (max)       Start up with Strong Load (capacitive load)     Yes, Unlimited       Dissipation power load max (W)     13       Short-circuit protection     Yes       Over Voltage Output protection     Yes       Over Voltage Battery     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       U/Vcell). Jumper Configuration 25°C (V/cell)     Lead Acid: 2.4       Jumper Configuration 25°C (V/cell)     Lead Acid: 2.43; 2.25; 2.27; 2.3       Jumper Configuration 25°C (V/cell)     Lead Acid: 2.4       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at N)     15 h       Max. Time Boost-Bulk charge (Typ. at N)     15 h       Max. Time Boost-Bulk charge (Typ. at N)     15 h       Max. Time Boost-Bulk charge (Typ. at N)     15 h       Max. Time Boost-Bulk charge (Typ. at				
Output Voltage (Vn) / Nominal Current (In)   24 Vdc / 3A     Output Current In = Iload   3 A     Efficiency (at 50% of rated current)   ≥ 90 %     Residual Ripple   ≤ 60 mV <sub>pp</sub> Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   13     Short-circuit protection   Yes     Over Voltage Output protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCd:1.51; Li-ion: 3.65     Float Charge Jumper Configuration 52°C   Lead Acid: 2.23; 2.25; 2.27; 2.3     Jumper Configuration battery type   NiCd:1.4; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Max. Time Boost-Bulk charge (Typ. at IN)   1 min.     Recevse battery check   Yes     Sulfact Battery check   Yes     Quiescent Current max   \$ 100 mA     Charging current Imiting Lagi   20 + 100 % / L	· · ·	10 A		
Output Current In = Iload   3 A     Efficiency (at 50% of rated current)   2 90 %     Residual Ripple   5 60 mV <sub>Rp</sub> Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   13     Short-circuit protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCd:1.4; Li-ion: 3.65     Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.23; 2.25; 2.27; 2.3     Jumper Configuration battery 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)   15 h     Min.Time Boost-Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 - 20 Vdc     Charging current limiting Jaci   20 + 100 % / Iaat     Reverse battery protection   Yes     Sulfated battery check   Yes by Jumper     Short circuit Element Detection   Yes     Quiescent Current max.   5 100 m		24.Vda / 24		
Efficiency (at 50% of rated current)   ≥ 90 %     Residual Ripple   ≤ 60 mV <sub>pp</sub> Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   13     Short-circuit protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCd:1.51; Li-ion: 3.65     Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.23; 2.25; 2.27; 2.3     Jumper Configuration battery type   NiCd:1.4; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Max. Time Boost-Bulk charge (Typ. at IN)   10 % / I <sub>bat</sub> Reverse battery protection   Yes     Sulfated battery check   Yes by Jumper     Continuous current (Without battery) I <sub>bade</sub> In   3 A     Remote Input C				
Residual Ripple   \$ 60 mV <sub>PP</sub> Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   13     Short-circuit protection   Yes     Over Load protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration 25°C (V/cell)   Lead Acid: 2.23;22;2;2;2;2;2;3     Jumper Configuration battery type   NiCc1:1.51; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Min. Time Boost-Bulk charge (Typ. at IN)   15 h     Min. Time Boost-Bulk charge (Typ. at IN)   1 fsh     Max. Time Boost-Bulk charge (Typ. at IN)   1 fsh     Reverse battery protection   Yes     Suffated battery check   Yes by Jumper     Short circuit Element Detection   Yes     Detection of element in short circuit   Yes     Quiescent Current Tax   \$ 100 mA     Charging current Justifier Jagu   1.1 x I_h A ± 5%     Continuous current (Without battery) I <sub>loade</sub> I_h. Batt				
Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   13     Short-circuit protection   Yes     Over Load protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCd:1.51; Li-ion: 3.65     Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.32, 25;2.27;2.3     Jumper Configuration battery type   NiCd:1.4; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Max.Time Boost-Bulk charge (Typ. at IN)   15 h     Min.Time Boost-Bulk charge (Typ. at IN)   15 h     Min.Time Boost-Bulk charge (Typ. at IN)   16 h     Max.Time Boost-Bulk charge (Typ. at IN)   16 h     Recovery Charge   2 - 20 Vdc     Charging current max l <sub>batt</sub> 3 A ± 5%     Charging current max b <sub>batt</sub> 3 A ± 5%     Charging Curve automatic: IUoU   4 stage     Remote Input Control (RTCONN cable)   Boost Float     Load Output   0		=		
Start up with Strong Load (capacitive load)     Yes, Unlimited       Dissipation power load max (W)     13       Short-circuit protection)     Yes       Over Load protection     Yes       Over Voltage Output protection     Yes       Output Voltage Datput protection     Yes       Battery Output     Vers       Output Voltage Battery     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       (V/cell). Jumper Configuration battery type     NiCd:1.4; Li-ion: 3.65       Float Charge Jumper Configuration 25°C (V/cell)     Lead Acid: 2.23; 2.25; 2.27; 2.3       Jumper Configuration battery 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)     15 h       Min.Time Boost-Bulk charge (Typ. at IN)     1 hat       Reverse battery protection     Yes       Sulfated battery check     Yes by Jumper       Short circuit Element betection     Yes       Detection of element in short circuit     Yes       Detection of element in short circuit     Yes       Quiescent Current Twax.     100 mA       Chargin	· · · · ·			
Dissipation power load max (W)   13     Short-circuit protection   Yes     Over Load protection   Yes     Over Voltage Output protection   Yes     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCd:1.51;   Li-ion: 3.65     Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.23; 2.25; 2.27; 2.3     Jumper Configuration battery type   NiCd:1.4;   Li-ion: 3.65     Max. Time Boost-Bulk charge (Typ. at IN)   15 h   Max. Time Boost-Bulk charge (Typ. at IN)   15 h     Max. Time Boost-Bulk charge (Typ. at IN)   15 h   Reverse battery protection   Yes     Sulfated battery check   Yes Jumper   Sold (Charging current max l <sub>batt</sub> 3 A ± 5%     Charging current max.   ≤ 100 % / l <sub>bat</sub> Reverse battery protection   Yes     Sulfated battery check   Yes Jumper   Sold (Charging Current max.   ≤ 100 mA     Charging Current max.   ≤ 100 mA   Charging Current max.   ≤ 100 mA     Charging Current max.   ≤ 100 mA   Charging Current max.   ≤ 100 mA     Charging Current max.   ≤ 100 mA </td <td></td> <td></td> <td></td>				
Short-circuit protection   Yes     Over Load protection   Yes     Over Voltage Output protection   Yes (typ. 35 Vdc)     Overheating Thermal protection   Yes     Battery Output   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell)   Jumper Configuration battery type   NiCd:1.51;     Jumper Configuration battery type   NiCd:1.51;   Li-ion: 3.65     Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.32; 25; 2.27; 2.3     Jumper Configuration battery type   NiCd:1.51;   Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h   Max.Time Boost-Bulk charge (Typ. at IN)     Max. Time Boost-Bulk charge (Typ. at IN)   15 h   Min.Time Boost-Bulk charge (Typ. at IN)     Recovery Charge   2 - 20 Vdc   Charging current max l <sub>batt</sub> 3 A ± 5%     Charging current max l <sub>batt</sub> 3 A ± 5%   Charging current limiting l <sub>ad1</sub> 20 + 100 % / l <sub>bat</sub> Reverse battery protection   Yes   Sulfated battery check   Yes by Jumper     Short circuit Element Detection   Yes   Quescent Current max.   ≤ 100 mA     Charging Curve automatic: IUoU   4 stage   Remote Input Control (				
Over Load protection     Yes       Over Voltage Output protection     Yes       Overheating Thermal protection     Yes       Battery Output     Vers       Output Voltage Battery     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       (V/cell). Jumper Configuration battery type     NiCd:1.4; Li-ion: 3.65       Float Charge Jumper Configuration 25°C (V/cell)     Lead Acid: 2.23; 2.25; 2.27; 2.3       Jumper Configuration battery type     NiCd:1.4; Li-ion: 3.45       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Mar. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     1 min.       Recovery Charge     2 - 20 Vdc       Charging current limiting I <sub>adi</sub> 20 + 100 % / I <sub>bat</sub> Reverse battery protection     Yes       Sulfated battery check     Yes by Jumper       Short circuit Element Detection     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 I <sub>n</sub> )       O				
Over Voltage Output protection     Yes       Overheating Thermal protection     Yes       Battery Output     Output Voltage Battery     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       (V/cell), Jumper Configuration battery type     NiCd:1.51; Li-ion: 3.65       Float Charge Jumper Configuration 25°C (V/cell)     Lead Acid: 2.23;2.25;2.27;2.3       Jumper Configuration battery type     NiCd:1.4; Li-ion: 3.45       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max.Time Boost-Bulk charge (Typ. at IN)     15 h       Min.Time Boost-Bulk charge (Typ. at IN)     16 h       Min.Time Boost-Bulk charge (Typ. at IN)     1 h       Recovery Charge     2 - 20 Vdc       Charging current Imitting I <sub>adj</sub> 20 + 100 % / I <sub>batt</sub> Reverse battery protection     Yes       Sulfated battery check     Yes by Jumper       Short circuit Element Detection     Yes       Quiescent Current max.     \$ 100 mA       Charging Curve automatic: IUOU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Doutput voltage Vdc (at I_a)     1.1 x I_n A ± 5%       Continuous current (with				
Overheating Thermal protection     Yes       Battery Output     Output Voltage Battery     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       (V/cell) Jumper Configuration battery type     NiCd:1.51; Li-ion: 3.65       Float Charge Jumper Configuration 25°C (V/cell)     Lead Acid: 2.23;2.25;2.27;2.3       Jumper Configuration battery type     NiCd:1.4; Li-ion: 3.45       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     16 h       Min.Time Boost-Bulk charge (Typ. at IN)     15 h       Sulfated battery charge     2 - 20 Vdc       Charging current limiting I <sub>adj</sub> 20 + 100 % / I <sub>bat</sub> Reverse battery protection     Yes       Detection of element in short circuit     Yes       Quiescent Current max.     \$ 100 mA <tr< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td></tr<>	· · · · · · · · · · · · · · · · · · ·			
Battery Output     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       (V/cell). Jumper Configuration battery type     NiCd: 1.51; Li-ion: 3.65       Float Charge Jumper Configuration 25°C (V/cell)     Lead Acid: 2.23; 2.25; 2.27; 2.3       Jumper Configuration battery type     NiCd: 1.4; Li-ion: 3.45       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Min. Time Boost-Bulk charge (Typ. at IN)     15 h       Min. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     1 min.       Recovery Charge     2 - 20 Vdc       Charging current limiting Ladi     20 + 100 % / Ibat       Reverse battery protection     Yes       Sulfated battery check     Yes by Jumper       Shott 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     0utput voltage Vdc (at In)     3 A       Continuous current (With b				
Output Voltage Battery     Follow the Out Load       Boost-Fast charge Jumper Configuration 25°C     Lead Acid: 2.4       (V/cell). Jumper Configuration battery type     Nicd:1.51; Li-ion: 3.65       Float Charge Jumper Configuration battery type     Nicd:1.2; Z.5; Z.2; Z.5; Z.7; Z.3       Jumper Configuration battery type     Nicd:1.4; Li-ion: 3.45       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max.Time Boost-Bulk charge (Typ. at IN)     15 h       Min.Time Boost-Bulk charge (Typ. at IN)     15 h       Min.Time Boost-Bulk charge (Typ. at IN)     15 h       Min.Time Boost-Bulk charge (Typ. at IN)     15 h       Max.Time Boost-Bulk charge (Typ. at IN)     15 h       Recores battery protection     Yes       Sulfated battery charge     2 - 20 Vdc       Charging current inshort circuit     Yes       Detection of element in short circuit     Yes       Quiescent Current max.     5100 mA       Charging Curve automatic: IUoU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Load Output     Output voltage Vdc (at I_n)     22 - 28.8 V (31 Ni-Cd)       Nominal current load (Main) load-In-Ishatt     6 A		Yes		
Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCcl:1.51; Li-ion: 3.65     Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.23;2.25;2.27;2.3     Jumper Configuration battery type   NiCcl:1.4; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     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     Charging current max l <sub>batt</sub> 3 A ± 5%     Charging current limiting l <sub>adj</sub> 20 + 100 % / l <sub>bat</sub> Reverse battery protection   Yes     Sulfated battery check   Yes by Jumper     Short circuit Element Detection   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 I_n)   22 - 28.8 V (31 Ni-Cd)     Nominal current (With battery) I <sub>load+</sub> I_n. I <sub>batt</sub> 6 A     Max. current Output Load (Main I <sub>load+</sub> I_n. I <sub>batt</sub> 6 A     Max. current Output Load (Back Up)I <sub>load+</sub> (4 sec.)   9 A max.     Max. current Output Load (Back Up)I <sub></sub>	Battery Output			
(V/cell). Jumper Configuration battery type     NiCd:1.51; Li-ion: 3.65       Float Charge Jumper Configuration 25°C (V/cell)     Lead Acid: 2.23;2.25;2.27;2.3       Jumper Configuration battery type     NiCd:1.4; Li-ion: 3.45       Max. Time Boost-Bulk charge (Typ. at IN)     15 h       Max. Time Boost-Bulk charge (Typ. at IN)     1 min.       Recovery Charge     2 - 20 Vdc       Charging current Imiting 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       Quiescent Current max.     ≤ 100 mA       Charging Curve automatic: IUoU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Dutput voltage Vdc (at I <sub>n</sub> )     22 - 28.8 V (31 Ni-Cd)       Nominal current I <sub>bad</sub> 1.1 x I <sub>n</sub> A ± 5%       Continuous current (With battery) I <sub>load</sub> - I <sub>n</sub> , I <sub>batt</sub> 6 A       Max. current Output Load (Back Up)I <sub>load4</sub> sec)     9 A max.       Max. current Output Load (Back Up)I <sub>load4</sub> sec)     6 A max.       Start From Battery Without Main (Remote Input Control)     8 min: Require SW       Threshold alarm Battery almost flat     21 - 22 Vdc batt				
Float Charge Jumper Configuration 25°C (V/cell)   Lead Acid: 2.23;2.25;2.27;2.3     Jumper Configuration battery type   NiCcl1.4; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   15 h     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     Charging current max I <sub>batt</sub> 3 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     Datod Output   Output voltage Vdc (at I_n)     Output voltage Vdc (at I_n)   22 - 28.8 V (31 Ni-Cd)     Nominal current (Without battery) I <sub>loads</sub> I_n   3 A     Continuous current (Without battery) I <sub>loads</sub> I_n   3 A     Continuous current (Without Back Up) I <sub>load</sub> (4 sec.)   9 A max.     Max. current Output Load (Back Up) I <sub>load</sub> (4 sec.)   6 A     Max. curre				
Jumper Configuration battery type   NiCd:1.4; Li-ion: 3.45     Max. Time Boost–Bulk charge (Typ. at IN)   15 h     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     Charging current max I <sub>batt</sub> 3 A ± 5%     Charging current Iimiting 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)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%   Continuous current (With battery) I <sub>loads</sub> In shatt     Max. current Output Load (Back Up) I <sub>loads</sub> In shatt   6 A     Max.current Output Load (Back Up) I <sub>loads</sub> In shatt   6 A     Max.current Output Load (Back Up) I <sub>loads</sub> In sin:: Require SW   Threshold alarm Battery almost flat     Time Buffering; min (switch output off without main input)   S min:: Require SW				
Max. Time Boost-Bulk charge (Typ. at IN)   15 h     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     Charging current max I <sub>batt</sub> 3 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 I_n)     Output voltage Vdc (at I_n)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I_n A ± 5%     Continuous current (Without battery) I <sub>loade</sub> I_n- Isatt   6 A     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 9 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 9 A max.     Max. current Quiput Load (Back Up)I <sub>load (4 sec.)</sub> 9 A max.     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Bat			2.27;2.3	
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     Charging current max I <sub>batt</sub> 3 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)   3 A     Continuous current (Without battery) I <sub>load</sub> Inc Ibatt   6 A     Max. current Output Load (Main) I <sub>load</sub> (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   9 A max.     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (Free switch contacts)   Main or Backup Input Power     Main or Backup Input Power   Yes     Fault Battery or system   Yes     Fault Battery or system				
Min. Time Boost–Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 – 20 Vdc     Charging current max I <sub>batt</sub> 3 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     Dutput voltage Vdc (at I <sub>n</sub> )   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I <sub>n</sub> A ± 5%     Continuous current (Without battery) I <sub>load-In-</sub> 3 A     Continuous current (With battery) I <sub>load-In-</sub> 3 A     Continuous current (Without Main (Remote Input Control)   RTCONN (cable)     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 9 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   21 – 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 – 20 Vdc batt     Sig	• • • • •	-		
Recovery Charge   2 - 20 Vdc     Charging current max I <sub>batt</sub> 3 A ± 5%     Charging current limiting I <sub>adi</sub> 20 ÷ 100 % / I <sub>bat</sub> Reverse battery protection   Yes     Sulfated battery check   Yes by Jumper     Short circuit Element Detection   Yes     Quiescent Current max.   ≤ 100 mA     Charging Curve automatic: IUoU   4 stage     Remote Input Control (RTCONN cable)   Boost / Float     Output voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load=</sub> In   3 A     Continuous current (Without battery) I <sub>load=</sub> In   3 A     Continuous current (With battery) I <sub>load=</sub> In- Ibatt   6 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 9 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Fault Battery or system   Yes <t< td=""><td></td><td></td><td></td></t<>				
Charging current max l <sub>batt</sub> 3 A ± 5%     Charging current limiting l <sub>adj</sub> 20 ÷ 100 % / l <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)   22 - 28.8 V (31 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In I batt   6 A     Max. current Output Load (Mair) Iload (4 sec.)   9 A max.     Max. current Output Load (Mair) Iload (4 sec.)   9 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   ∞: standard     Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery <td></td> <td></td> <td></td>				
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     Doutput voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load=</sub> In thatt   6 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 9 A max.     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 9 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery   Yes   Fault Battery or system   Yes     Low Battery   Yes   Fault Battery or system   Yes				
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)   22 - 28.8 V (31 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In Ibatt   6 A     Max. current Output Load (Main) Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload(4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main enst standard     input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power     Main or Backup Input Power   Yes     Fault Battery or system   Yes     Fault Battery or system   Yes <t< td=""><td></td><td></td><td></td></t<>				
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   3     Output voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   3 A     Continuous current (With battery) Iload= In+ Ibatt   6 A     Max. current Output Load (Back Up)Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   9 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   ••••••••••••••••••••••••••••••••••••				
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 I <sub>n</sub> )   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I <sub>n</sub> A ± 5%     Continuous current (Without battery) I <sub>load= In-</sub> Batt   6 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 9 A max.     Max. current Output Load (Back Up)I <sub>load(4 sec.)</sub> 6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main on: standard     input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power     Main or Backup Input Power   Yes     Low Battery   Yes     Fault Battery or system   Yes     Fault Battery or system   Yes     Fault Battery or system   C				
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     Doutput Control (RTCONN cable)     Output voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (With battery) Iload= In:   3 A     Continuous current (With battery) Iload= In: Ibatt   6 A     Max. current Output Load (Main) Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt   LVD. (Protections against total Battery discharge)     IVD. (Protections against total Battery discharge)   19 - 20 Vdc batt   Signal Output (free switch contacts)     Main or Backup Input Power   Yes   Yes     Low Battery   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Type of Signal Output Contact   O     Dry Con				
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)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load=</sub> In   3 A     Continuous current (With battery) I <sub>load=</sub> In+ Ibatt   6 A     Max. current Output Load (Main) I <sub>load</sub> (4 sec.)   9 A max.     Max. current Output Load (Back Up)I <sub>load</sub> (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt   LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Trype of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault Battery or system   Yes     Fault Battery or system   C   NC   NO				
Charging Curve automatic: IUOU   4 stage     Remote Input Control (RTCONN cable)   Boost / Float     Load Output   Output voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load=</sub> In   3 A     Continuous current (With battery) I <sub>load=</sub> In- Batt   6 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 9 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt   UVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes   Fault Battery or system     Fault Battery or system   Yes   Fault Battery or system   Yes     Fault Battery Low Battery   Yes   C   NC   NO     Main or Backup Input Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery   C <td< td=""><td></td><td></td><td></td></td<>				
Remote Input Control (RTCONN cable)   Boost / Float     Load Output   Output voltage Vdc (at I_n)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I_n A ± 5%     Continuous current (Without battery) I <sub>load=</sub> I_n   3 A     Continuous current (With battery) I <sub>load=</sub> I_n. I_batt   6 A     Max. current Output Load (Main) I <sub>load</sub> (4 sec.)   6 A max.     Max. current Output Load (Back Up)I <sub>load</sub> (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt   UVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes   Fault Battery or system     Fault Battery or system   Yes   Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO   Main or Back Up   C   NC   NO     Main or Back Up   C <t< td=""><td></td><td></td><td></td></t<>				
Load Output     Output voltage Vdc (at In)     Output voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   3 A     Continuous current (With battery) Iload= In+ Ibatt   6 A     Max. current Output Load (Main) Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt   UVD. (Protections against total Battery discharge)     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt   Signal Output (free switch contacts)     Main or Backup Input Power   Yes   Ves   Fault Battery or system   Yes     Fault Battery or system   Yes   Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO   Main or Back Up		-		
Output voltage Vdc (at In)   22 - 28.8 V (31 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load</sub> = In   3 A     Continuous current (With battery) I <sub>load</sub> = In   3 A     Continuous current (With battery) I <sub>load</sub> = In   6 A     Max. current Output Load (Main) I <sub>load</sub> (4 sec.)   6 A max.     Max. current Output Load (Back Up)I <sub>load</sub> (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt   UVD. (Protections against total Battery discharge)     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt   Signal Output (free switch contacts)     Main or Backup Input Power   Yes   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO   Main or Back Up   C   NC <td< td=""><td></td><td>BOOSL/ FIDAL</td><td></td></td<>		BOOSL/ FIDAL		
Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   3 A     Continuous current (With battery) Iload= In+ Ibatt   6 A     Max. current Output Load (Main) Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   11 x In A ± 20 Vdc batt     Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power     Low Battery   Yes     Fault Battery or system   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC   NO     Main or Back Up   C   NC   NO     Main or Back Up	•			
Continuous current (Without battery) Iload= In   3 A     Continuous current (With battery) Iload= In+ Ibatt   6 A     Max. current Output Load (Main) Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main env: standard     input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power     Main or Backup Input Power   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO <t< td=""><td></td><td></td><td>i-Cd)</td></t<>			i-Cd)	
Continuous current (With battery) Iload= In+ Ibatt   6 A     Max. current Output Load (Main) Iload (4 sec.)   9 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Push Button     Time Buffering; min (switch output off without main over standard   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Fault Battery or system   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery   C     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 9 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Push Button     Time Buffering; min (switch output off without main input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery   Yes   Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   C   NC   NO				
Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 6 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Push Button     Time Buffering; min (switch output off without main input)   \$ min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power     Main or Backup Input Power   Yes     Low Battery   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Main or Back Up   C   NC     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button     Time Buffering; min (switch output off without main   •••: standard     input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power     Main or Backup Input Power   Yes     Low Battery or system   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	· · · ·			
Push Button     Time Buffering; min (switch output off without main input)   ∞: standard     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   19 - 20 Vdc batt     Main or Backup Input Power   Yes     Fault Battery or system   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out				
Time Buffering; min (switch output off without main input)   ∞: standard     S min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   19 - 20 Vdc batt     Main or Backup Input Power   Yes     Low Battery   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	Start From Battery Without Main (Remote input Cont			
input)   5 min.: Require SW     Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Fault Battery or system   Yes     Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	Time Buffering: min (switch output off without main			
Threshold alarm Battery almost flat   21 - 22 Vdc batt     LVD. (Protections against total Battery discharge)   19 - 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Fault Battery or system   Yes     Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)			w	
LVD. (Protections against total Battery discharge)   19 – 20 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Fault Battery or system   Yes     Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Signal Output (free switch contacts)     Main or Backup Input Power   Yes     Low Battery   Yes     Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     C   NC   NO     Main or Back Up   C   NC     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Main or Backup Input Power Yes   Low Battery Yes   Fault Battery or system Yes   Type of Signal Output Contact Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60   Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery C NC   Main or Back Up C NC NO   Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out RJ Temp (cable)				
Low Battery   Yes     Fault Battery or system   Yes     Type of Signal Output Contact     Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)		Ves		
Fault Battery or system   Yes     Type of Signal Output Contact   Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Type of Signal Output Contact     Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Dry Contact. Current can be switched (EN60947.4.1): Max: DC1: 30 Vdc 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)     Fault System / Low Battery   C   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)				
Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)       Fault System / Low Battery     C     NC     NO       Main or Back Up     C     NC     NO       Signal Input / Output (RJ45)     Temp. Comp. Battery (with external probe): Aux Out     RJ Temp (cable)				
Fault System / Low Battery C NC NO   Main or Back Up C NC NO   Signal Input / Output (RJ45) Temp. Comp. Battery (with external probe): Aux Out RJ Temp (cable)				
Main or Back Up     C     NC     NO       Signal Input / Output (RJ45)     Temp. Comp. Battery (with external probe): Aux Out     RJ Temp (cable)			NO	
Signal Input / Output (RJ45)       Temp. Comp. Battery (with external probe): Aux Out     RJ Temp (cable)				
Temp. Comp. Battery (with external probe): Aux Out RJ Temp (cable)				
		RI Temp (cable)		

<sup>1</sup>Can be adjusted via PC software mode All specifications are subject to change without notice CBI243A Data sheet \_R31



