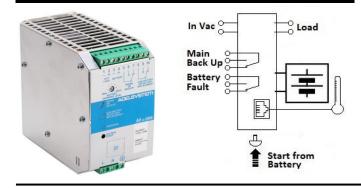
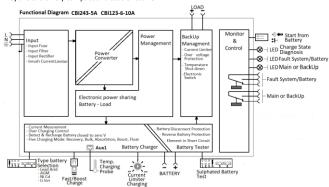
## CBI126A ALL In One



## **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: cNus EN60950 / 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**

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
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 / 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: Single-phase 115 – 277 Vac

Output Load: power supply 12 Vdc; 6 A

Output Battery: charging 12 Vdc; 6 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 10-14.4Vdc 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 Data (internal power supply)   0utput Voitage (Vn) / Nominal Current (La)   12 Vdc / 6A     Output Current L, = Iload   6 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)   15     Short-circuit protection   Yes     Over Volage Output protection   Yes (typ. 35 Vdc)     Over voltage Output protection   Yes (typ. 35 Vdc)     Over voltage Output protection   Yes (typ. 35 Vdc)     Output Voltage Battery   Follow the Out Load     Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.43; 2.25; 2.27; 2.3     Jumper Configuration battery type   NiCd:1.4; 1:I-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   1 Sh     Min.Time Boost-Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current max batt   6 A ± 5%     Charging current max batt   6 A ± 5%     Char	Input Current (115 – 230 – 277 Vac) Max	1.91- 1.2 – 0.96 A
External Fuse (recommended) MCB curve B     10 A       Output Data (internal power supply)     Output Voltage (Vn) / Nominal Current (In.)     12 Vdc / 6A       Output Current In, = Iload     6 A     Efficiency (at 50% of rated current)     ≥ 90 %       Residual Ripple     5 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)     15       Short-circuit protection     Yes     Over Load protection     Yes       Over Load protection     Yes     Over load protection     Yes       Output Voltage Battery     Follow the Out Load     Lead Acid: 2.4     NiCd:1.51; Li-ion: 3.65       Float Charge Jumper Configuration 25°C     Icad Acid: 2.2; 2.3; 2.2; 2.2; 2.2; 2.2; 2.3; 2.3;		
Output Voltage (Vn) / Nominal Current (In)12 Vdc / 6AOutput Current In = Iload6 AEfficiency (at 50% of rated current) $\geq$ 90 %Residual Ripple $\leq$ 60 mV <sub>pp</sub> Turn-On delay after applying mains voltage $1 \sec c. (max)$ Start up with Strong Load (capacitive load)Yes, UnlimitedDissipation power load max (W)15Short-circuit protectionYesOver Load protectionYesOver Voltage Output protectionYesOutput Voltage BatteryFollow the Out LoadBoast-Fast charge Jumper Configuration 25°CLead Acid: 2.4Vorellay OutputUnpuer Configuration 25°C (V/cell)Lead Acid: 2.23; 2.25; 2.27; 2.3Jumper Configuration battery typeNicCit.1.51; Li-ion: 3.45Float Charge Jumper Configuration 25°C (V/cell)Lead Acid: 2.23; 2.25; 2.27; 2.3Jumper Configuration battery typeNicCit.1.61; Li-ion: 3.45Max. Time Boost-Bulk charge (Typ. at IN)15 hMin.Time Boost-Bulk charge (Typ. at IN)16 A ± 5%Charging current max labatCharging current max labatReverse battery protectionYesOutput Voltage Unrent (If(TCONN cable)Boost / FloatLoad OutputOutput Voltage Vdc (at In)10 - 14.4 V (17 Ni-Cd)Nominal current Uwith Valia (Remote Input Control)Reverse Valtage Vdc (at In)10 - 14.4 V (17 Ni-Cd)Nominal current (Without Main (Remote Input Control)Nax. current Output Load (Back Up		
Output Voltage (Vn) / Nominal Current (I <sub>n</sub> )   12 Vdc / 6A     Output Current I <sub>n</sub> = Iload   6 A     Efficiency (IS 50% of rated current)   29 0%     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)   15     Short-circuit protection   Yes     Over Load protection   Yes     Over Voltage Output 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: 2.4     Jumper Configuration battery type   NiCd:1.4; Li-ion: 3.45     Max. Time Boost-Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current limiting Lag   2.0 + 100 % / Last     Reverse battery protection   Yes     Sulfated battery check   Yes by Jumper     Short circuit Element Detection   Yes     Quiescent Current max.   51		
Output Current I <sub>n</sub> = Iload     6 A       Efficiency (at SOW of rated current)     ≥ 90 %       Residual Ripple     ≤ 60 mV <sub>2p</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)     15       Short-circuit protection     Yes       Over Load protection     Yes       Over Voltage Output protection     Yes (typ. 35 Vdc)       Ouverheating Thermal protection     Yes       Bost-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)     1 min.       Recovery Charge     2 - 10 Vdc       Charging current max l <sub>batt</sub> 6 A ± 5%       Charging current max l <sub>batt</sub> 6 A ± 5%       Charging Curre max.     ≤ 100 mA       Charging Curre timax.     ≤ 100 mA       Charging Curre atomatic: IUOU     4 stage       Remot		12 Vdc / 6A
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)   15     Short-circuit protection)   Yes     Over Voltage Output protection   Yes     Over Voltage Output 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 5°C (V/cell)     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 min.     Recovery Charge   2 - 10 Vdc     Charging current max l <sub>batt</sub> 6 A ± 5%     Charging current max l <sub>batt</sub> 6 A ± 5%     Charging Curve automatic: IUOU   4 stage     Rewores battery protection   Yes     Suffated battery check   Yes by Jumper     Short circuit Element Detection   Yes     Quiescent Current max.   100 mA		6 A
Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   15     Short-circuit protection)   Yes     Over Load protection   Yes     Over Voltage Output protection   Yes     Output Voltage Eattery   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)   1 Sh     Min.Time Boost-Bulk charge (Typ. at IN)   1 Sh     Max. Time Boost-Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 - 100 Vdc     Charging current max blatt   6 A ± 5%     Charging current max blatt   6 A ± 5%     Charging Current max.   ≤ 100 MA	Efficiency (at 50% of rated current)	≥ 90 %
Turn-On delay after applying mains voltage   1 sec. (max)     Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   15     Short-circuit protection   Yes     Over Load protection   Yes     Over Load protection   Yes     Over Load 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)   1 Sh     Min.Time Boost-Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current max b <sub>batt</sub> 6 A ± 5%     Charging current max b <sub>batt</sub> 6 A ± 5%     Charging Current max.   ≤ 100 mA     Charging Current max. <td>Residual Ripple</td> <td>≤ 60 mV<sub>pp</sub></td>	Residual Ripple	≤ 60 mV <sub>pp</sub>
Start up with Strong Load (capacitive load)   Yes, Unlimited     Dissipation power load max (W)   15     Short-circuit protection   Yes     Over Voltage Output protection   Yes     Output Voltage Datput 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: 2.3; 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 - 10 Vdc     Charging current Imiting I <sub>add</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 <td>Turn-On delay after applying mains voltage</td> <td>••</td>	Turn-On delay after applying mains voltage	••
Short-circuit protection   Yes     Over Load protection   Yes     Over Load protection   Yes (typ. 35 Vdc)     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).     (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   Charging current limiting Lag   20 + 100 % / Lost     Reverse battery protection   Yes   Suffaced battery check   Yes     Suffaced battery check   Yes   Detection of Ves   Detection of element next:   4 stage     Remote Input Control (RTCONN cable)   Boost / Float   Load Output   Output voltage Vdc (at I_n)   10 - 14.4 V (17 Ni-Cd)     Nominal current (Without battery) Iwads In   6 A   5 Start From Battery Without battery) Iwads In   6 A     Continuous current (Without battery) Iwads In   12 A   Max.   Max.     Max. current Output	Start up with Strong Load (capacitive load)	Yes, Unlimited
Over Load protection     Yes       Over Voltage Output protection     Yes (typ. 35 Vdc)       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 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)     10 h       Recovery Charge     2 - 10 Vdc       Charging current Imiting I <sub>adi</sub> 20 + 100 % / I <sub>batt</sub> Reverse battery protection     Yes       Sulfated battery check     Yes by Jumper       Short circuit Element Detection     Yes       Quiscent Current max.     ≤ 100 mA       Charging Curve automatic: IUOU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Load Output     10 - 14.4 V (17 Ni-Cd)       Output voltage Vdc (at I <sub>n</sub> )     10 - 14.4 V (17 Ni-Cd)       Nominal current I <sub>baad</sub> 1.1 x I <sub>n</sub> A ±	Dissipation power load max (W)	15
Over Voltage Output protection     Yes     Kityp. 35 Vdc)       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       Min.Time Boost-Bulk charge (Typ. at IN)     1 min.       Recovery Charge     2 - 10 Vdc       Charging current max batt     6 A ± 5%       Charging current max batt     6 A ± 5%       Charging current max batt     6 A ± 5%       Sulfated battery check     Yes       Sulfated battery check     Yes       Quiescent Current max.     ≤ 100 mA       Charging Curre automatic: IUoU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Load Output     0utput voltage Vdc (at I_n)       Output voltage Vdc (at I_n)     10 - 14.4 V (17 Ni-Cd)       Nominal current (With battery)	Short-circuit protection)	Yes
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; 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)     1 5 h       Min.Time Boost-Bulk charge (Typ. at IN)     1 min.       Recovery Charge     2 - 10 Vdc       Charging current limiting Isdij     20 + 100 % / Ibast       Reverse battery protection     Yes       Suffated battery check     Yes by Jumper       Short circuit Element Detection     Yes       Quiescent Current max.     ≤ 100 mA       Charging Curre automatic: IUoU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Load Output     0utput voltage Vdc (at In)       Nominal current Iwith battery) Imade In     6 A       Continuous current (With battery) Imade In     6 A       Max. current Output Load (Main) Imad (asc.)     18 A max.       Max. current Output Load (Main) Imad (asc.) <td>Over Load protection</td> <td>Yes</td>	Over Load protection	Yes
Battery Output   Follow the Out Load     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     Min.Time Boost-Bulk charge (Typ. at IN)   1 fmin.     Recovery Charge   2 - 10 Vdc     Charging current Imax I <sub>batt</sub> 6 A ± 5%     Charging current Imitting 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)   10 - 14.4 V (17 Ni-Cd)     Nominal current (Without battery) I <sub>load</sub> In- I <sub>batt</sub> 12 A     Max. current Output Load (Back Up)I <sub>load</sub> In- I <sub>batt</sub> 12 A <td>Over Voltage Output protection</td> <td>Yes (typ. 35 Vdc)</td>	Over Voltage Output protection	Yes (typ. 35 Vdc)
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:1.51; 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 - 10 Vdc       Charging current max I <sub>batt</sub> 6 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       Quiescent Current max.     ≤ 100 mA       Charging Curve automatic: IUoU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Load Output     0utput voltage Vdc (at I_n)     10 - 14.4 V (17 Ni-Cd)       Nominal current (With battery) I <sub>load-</sub> I <sub>n</sub> 6 A       Continuous current (With battery) I <sub>load-</sub> (4 sec.)     12 A max.       Max. current Output Load (Main) I <sub>load-</sub> (4 sec.)     12 A max.       Max. current Output Load (Back Up)I <sub>load-</sub> (4 sec.)     10 - 11 Vdc batt <td>Overheating Thermal protection</td> <td>Yes</td>	Overheating Thermal 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 battery type     Nicd:1.51; 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 - 10 Vdc       Charging current max I <sub>batt</sub> 6 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       Quiescent Current max.     ≤ 100 mA       Charging Curve automatic: IUoU     4 stage       Remote Input Control (RTCONN cable)     Boost / Float       Load Output     0utput voltage Vdc (at I_n)     10 - 14.4 V (17 Ni-Cd)       Nominal current (With battery) I <sub>load-</sub> I <sub>n</sub> 6 A       Continuous current (With battery) I <sub>load-</sub> (4 sec.)     12 A max.       Max. current Output Load (Main) I <sub>load-</sub> (4 sec.)     12 A max.       Max. current Output Load (Back Up)I <sub>load-</sub> (4 sec.)     10 - 11 Vdc batt <td>Battery Output</td> <td></td>	Battery Output	
Boost-Fast charge Jumper Configuration 25°C   Lead Acid: 2.4     (V/cell). Jumper Configuration battery type   NiCd:1.51;     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)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current limiting Jadi   20 + 100 % / Ibat     Reverse battery protection   Yes     Suffated 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 In)   10 - 14.4 V (17 Ni-Cd)     Nominal current (With battery) Ibad- Ine Ibatt   12 A     Max. current Output Load (Main) Ibad (4sec)   12 A     Max. current Output Load (Back Up) Ibade Sec)   12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Sinin: Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)		Follow the Out Load
(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)   1 bin.     Recovery Charge   2 - 10 Vdc     Charging current max I <sub>batt</sub> 6 A ± 5%     Charging current limiting I <sub>adl</sub> 20 + 100 % / I <sub>bat</sub> 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     Doutput voltage Vdc (at I <sub>n</sub> )   10 - 14.4 V (17 Ni-Cd)     Nominal current (Without battery) I <sub>loads</sub> I <sub>n</sub> 6 A     Continuous current (Without battery) I <sub>loads</sub> I <sub>n</sub> 6 A     Continuous current (Without battery) I <sub>load</sub> (asc.)   12 A max.     Max. current Output Load (Back Up)I <sub>load(4 sec.)</sub> 12 A max.     Start From Battery Without Main (Remote Input Control)   Strik require SW     Threshold al		
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)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current max I <sub>batt</sub> 6 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     Quiescent Current max.   ≤ 100 mA     Charging Curve automatic: IUoU   4 stage     Remote Input Control (RTCONN cable)   Boost / Float     Dadd Output   0utput voltage Vdc (at I <sub>n</sub> )     Output voltage Vdc (at I <sub>n</sub> )   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I <sub>n</sub> A ± 5%     Continuous current (Without battery) I <sub>load</sub> = I <sub>n</sub> + I <sub>batt</sub> 12 A     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 A max.     Start From Battery almost flat   1.1.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes </td <td></td> <td>NiCd:1.51; Li-ion: 3.65</td>		NiCd:1.51; Li-ion: 3.65
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)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current max I <sub>batt</sub> 6 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     Quiescent Current max.   ≤ 100 mA     Charging Curve automatic: IUoU   4 stage     Remote Input Control (RTCONN cable)   Boost / Float     Dadd Output   0utput voltage Vdc (at I <sub>n</sub> )     Output voltage Vdc (at I <sub>n</sub> )   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I <sub>n</sub> A ± 5%     Continuous current (Without battery) I <sub>load</sub> = I <sub>n</sub> + I <sub>batt</sub> 12 A     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 A max.     Start From Battery almost flat   1.1.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes </td <td></td> <td></td>		
Min.Time Boost-Bulk charge (Typ. at IN)   1 min.     Recovery Charge   2 - 10 Vdc     Charging current max I <sub>batt</sub> 6 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     Load Output   Output voltage Vdc (at I <sub>n</sub> )     Output voltage Vdc (at I <sub>n</sub> )   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I <sub>n</sub> A ± 5%     Continuous current (Without battery) I <sub>load</sub> - I <sub>n</sub> 6 A     Continuous current (With battery) I <sub>load</sub> - I <sub>n</sub> 6 A     Max. current Output Load (Back Up)I <sub>load</sub> (4 sec.)   12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes  <	Jumper Configuration battery type	
Recovery Charge   2 - 10 Vdc     Charging current max I <sub>batt</sub> 6 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     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 In)   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load=</sub> In   6 A     Continuous current (Without battery) I <sub>load=</sub> In   6 A     Continuous current (Without battery) I <sub>load=</sub> In   6 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 12 A max.     Max. current Output Load (Back Up)I <sub>load(4 sec.)</sub> 12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal O	Max. Time Boost–Bulk charge (Typ. at IN)	15 h
Charging current max l <sub>batt</sub> 6 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)   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x In A ± 5%     Continuous current (Without battery) I <sub>load=</sub> In+ lbatt   12 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 12 A max.     Start From Battery Without Main (Remote Input Control)   Stric Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Low Battery   Yes   Fault Battery or system   Yes     Low Battery   Yes   NO   Noin or Backu	Min.Time Boost–Bulk charge (Typ. at IN)	1 min.
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)   10 - 14.4 V (17 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In- Ibatt   12 A     Max. current Output Load (Main) Iload= In- Ibatt   12 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   18 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Fault Battery or system   Yes   Fault Battery or system   Yes	Recovery Charge	2 – 10 Vdc
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   0utput voltage Vdc (at I_n)     Output voltage Vdc (at I_n)   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I_n A ± 5%     Continuous current (Without battery) I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   ••• standard     input)   5 min.: Require SW     Threshold alarm Battery almost flat   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Icow Battery   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes	Charging current max I <sub>batt</sub>	6 A ± 5%
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   Int (RTCONN cable)   Boost / Float     Output voltage Vdc (at I_n)   10 - 14.4 V (17 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   6 A     Continuous current (With battery) I <sub>load =</sub> I_n = I_batt   12 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   ••••••••••••••••••••••••••••••••••••	Charging current limiting I <sub>adj</sub>	20 ÷ 100 % / I <sub>bat</sub>
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_n)   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I_n A ± 5%     Continuous current (Without battery) I <sub>load= In+ batt</sub> 12 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   5 min.: Require SW     Threshold alarm Battery almost flat   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 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     Fault Battery Low Battery   Yes   Nod 1 A; AC1: 60     Vac 1A (Resistive load ) Min: 1mA at 5 Vdc (Min permissive load)   Fault System / Low Battery   NO	Reverse battery protection	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 I_n)   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I_n A ± 5%     Continuous current (With battery) I <sub>load=</sub> I_n   6 A     Continuous current (With battery) I <sub>load=</sub> I_n + I_batt   12 A     Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 18 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   11.5 – 12 Vdc batt   LVD. (Protections against total Battery discharge)     IVD. (Protections against total Battery discharge)   10 – 11 Vdc batt   Signal Output (free switch contacts)     Main or Backup Input Power   Yes   Yes   Fault Battery or system     Low Battery   Yes   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Fault Battery or system	Sulfated battery check	Yes by Jumper
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> )   10 - 14.4 V (17 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> 6 A     Continuous current (With battery) I <sub>load (4 sec.</sub> )   18 A max.     Max. current Output Load (Main) I <sub>load (4 sec.</sub> )   18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.</sub> )   12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   •: standard     Time Buffering; min (switch output off without main input)   •: standard     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Fault Battery or system   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Fault Battery or system / Low Battery   Yes     Fault Battery or system   Yes   Fault Battery or system / Low Battery   Yes <td< td=""><td>Short circuit Element Detection</td><td>Yes</td></td<>	Short circuit Element Detection	Yes
Charging Curve automatic: IUOU   4 stage     Remote Input Control (RTCONN cable)   Boost / Float     Load Output   0utput voltage Vdc (at In)   10 - 14.4 V (17 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   6 A     Continuous current (With battery) Iload= In+ Ibatt   12 A     Max. current Output Load (Main) Iload (4 sec.)   18 A max.     Max. current Output Load (Back Up)Iload(4 sec.)   12 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   11.5 – 12 Vdc batt   UVD. (Protections against total Battery discharge)   10 – 11 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   NC   NO     Main or Back Up   C   NC   NO   Main or Back Up   C   NC <td></td> <td>Yes</td>		Yes
Remote Input Control (RTCONN cable)   Boost / Float     Load Output   Output voltage Vdc (at In)   10 - 14.4 V (17 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   6 A     Continuous current (With battery) Iload= In   6 A     Continuous current (With battery) Iload= In   12 A     Max. current Output Load (Main) Iload (4 sec.)   18 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   12 A max.     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   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 Vdc batt   Signal Output (free switch contacts)     Main or Backup Input Power   Yes   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   Yes   Fault Battery or system   Yes     Fault Battery Low Battery   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 Vd	Quiescent Current max.	≤ 100 mA
Load Output     Output voltage Vdc (at In)   10 - 14.4 V (17 Ni-Cd)     Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   6 A     Continuous current (With battery) Iload= In+ Ibatt   12 A     Max. current Output Load (Main) Iload (4 sec.)   18 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   12 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   11.5 – 12 Vdc batt   UVD. (Protections against total Battery discharge)     I.Ov (Protextions against total Battery discharge)   10 – 11 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   NC   NO     Main or Back Up   C   NC   NO   Main or Back Up   C   NC   NO     f		4 stage
Output voltage Vdc (at I <sub>n</sub> )   10 - 14.4 V (17 Ni-Cd)     Nominal current I <sub>load</sub> 1.1 x I <sub>n</sub> A ± 5%     Continuous current (Without battery) I <sub>load=</sub> I <sub>n</sub> 6 A     Continuous current (With battery) I <sub>load=</sub> I <sub>n</sub> 6 A     Continuous current (With battery) I <sub>load=</sub> I <sub>n</sub> 12 A     Max. current Output Load (Main) I <sub>load</sub> (4 sec.)   18 A max.     Max. current Output Load (Back Up)I <sub>load</sub> (4 sec.)   12 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   11.5 – 12 Vdc batt   UVD. (Protections against total Battery discharge)     Main or Backup Input Power   Yes   Yes     Low Battery   Yes   Fault Battery or system   Yes     Fault Battery or system   Yes   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	Remote Input Control (RTCONN cable)	Boost / Float
Nominal current Iload   1.1 x In A ± 5%     Continuous current (Without battery) Iload= In   6 A     Continuous current (With battery) Iload= In+ Ibatt   12 A     Max. current Output Load (Main) Iload (4 sec.)   18 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   12 A max.     Start From Battery Without Main (Remote Input Control)   RTCONN (cable)     Push Button   Time Buffering; min (switch output off without main input)   ∞: standard     Threshold alarm Battery almost flat   11.5 – 12 Vdc batt   Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 Vdc batt   Signal Output (free switch contacts)     Main or Backup Input Power   Yes   Fault Battery or system   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   NO     fault Battery or system   Yes   Contact.   Signal Output (RJ45)   Tremp. Comp. Battery (with external probe):	Load Output	
Continuous current (Without battery) I <sub>load</sub> In   6 A     Continuous current (With battery) I <sub>load</sub> In+ Ibatt   12 A     Max. current Output Load (Main) I <sub>load</sub> (4 sec.)   18 A max.     Max. current Output Load (Back Up)I <sub>load</sub> (4 sec.)   12 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   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 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   NC   NO     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	Output voltage Vdc (at I <sub>n</sub> )	10 - 14.4 V (17 Ni-Cd)
Continuous current (With battery) Iload= In+ Ibatt   12 A     Max. current Output Load (Main) Iload (4 sec.)   18 A max.     Max. current Output Load (Back Up)Iload (4 sec.)   12 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   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 Vdc batt     Signal Output (free switch contacts)   Main or Backup Input Power   Yes     Fault Battery or system   Yes   Fault Battery or system     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     Stipaal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	Nominal current I <sub>load</sub>	$1.1 \times I_n A \pm 5\%$
Max. current Output Load (Main) I <sub>load (4 sec.)</sub> 18 A max.     Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 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   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 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)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	Continuous current (Without battery) I <sub>load=</sub> I <sub>n</sub>	6 A
Max. current Output Load (Back Up)I <sub>load (4 sec.)</sub> 12 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)   \$\infty\$ smin.: Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 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     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     Fault System / Low Battery   C   NC     Fault System / Low Battery   C   NC     Main or Back Up   C   NC     Main or Back Up   C   NC     Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cabl	Continuous current (With battery) Iload= In+ Ibatt	12 A
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   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 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)	Max. current Output Load (Main) I <sub>load (4 sec.)</sub>	18 A max.
Push Button     Time Buffering; min (switch output off without main input)   ∞: standard     Threshold alarm Battery almost flat   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 Vdc batt     Signal Output (free switch contacts)   10 – 11 Vdc batt     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)		
Time Buffering; min (switch output off without main input)   ∞: standard     5 min.: Require SW     Threshold alarm Battery almost flat   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 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     Main or Back Up   C   NC   NO     Signal Input / Output (RJ45)   Temp. Comp. Battery (with external probe): Aux Out   RJ Temp (cable)	Start From Battery Without Main (Remote Input Co	
input)   5 min.: Require SW     Threshold alarm Battery almost flat   11.5 - 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 - 11 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)		
Threshold alarm Battery almost flat   11.5 – 12 Vdc batt     LVD. (Protections against total Battery discharge)   10 – 11 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)		
LVD. (Protections against total Battery discharge)   10 - 11 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     Main or Back Up   C   NC     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     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)		
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)		10 - 11 Vac batt
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)		
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)   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)		Yes
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)	<u> </u>	
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)		
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)		C NC NO
	Signal Input / Output (RJ45)	
Remote monitoring LED from Front Device: Aux Out RJ 45 (cable)	Temp. Comp. Battery (with external probe): Aux Ou	t RJ Temp (cable)
	Remote monitoring LED from Front Device: Aux Out	RJ 45 (cable)



<sup>1</sup>Can be adjusted via PC software mode

All specifications are subject to change without notice



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