Via Luigi Barchi 9/8 - Bengio Emilia 42124 - Italy Tel. +39 0522 345518 - Fax +39 0522 345551 - www.adelsystem.com Inetruction Manual All In One R22 pag1-7.doc

"All In One" CBI series: Uninterruptible Power Supply with DC output

Thank you for having chosen one of our products for your work. We are certain that it will give the utmost satisfaction and be a notable help on the job General Description Thanks to "All In One" CBI series of DC-UPS, it will be possible to

optimize the power management of your system with one single, extremely compact and cost-effective device, connected directly to the mains. The available power is automatically distributed between load and battery giving priority to the load. Battery can supply the load even with mains so the output power to the load can be twice the nominal power if it is required (Power Boost). When mains failure

the nominal power if it is required (Power Boost). When mains failure occurs, the load continues to be supplied by the battery lineakup mode. It is also possible to which on the device with no mains directly from battery. The "Battery Care" algorithm performs rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic stiming installation and operation. Temperature compensation is possible to connect the temperature sensor probe. The real time auto-diagnostic system monitors battery faults such as suitable battery, shorted cells, accidental reverse polarity connection or disconnection of the battery. Every fault is signaled by a blink code of Diagnosis Lad or via Modbus (only in some mode) in order to be easily detected and memored during the installation and are sales. The connuclean Model autor 6 altery efficiency reduces risk of battery damage and allows a sale operation in permanent connection. Predefined curves can be selected by jumpers or DP which to optimize the charge of different battery type: Connuclean Altery and Gel Lad Adv. No Ca are rechargeable to signale both backup and purces the battery difference of connuclean control and the sale and the control are selected by provide single purces to backup and allows a sale operation in permanent connection. Predefined curves can be selected by impers or DP and to backup and purces on the control and the control of the battery efficiency of the control are to the selecter by a backup and purces on the selecter by interest operations of the backup and backup and purces on the performance of control are backup and purces on the selecter by purceives detecter by provide in B2D protection degree.

Main Characteristics

 Universal input voltage: single-phase 115–230-277 Vac
 Load output:24 Vdc 3,5,10,20A; 12 Vdc 3,6,10,15,35A 48 Vdc 5,10A 0--0.041 Battery output:24 Vdc 3,5,10,20A; 12 Vdc 3,6,10,15,35A; 48 Vdc 5,10A
 *All In One's solution: power supply + battery charger + backup module in one single device connected directly to the mains In Var ^− single device connected directly to the mains • Suited for different battery types: Open Lead Acid, Sealed Lead Acid, AGM and Gel Lead Acid, Ni-Cd and Li-lon are available as options. Four stage charging curve for Lead Acid batteries: 3-stage IUoU (Bulk, Absorption, Trickle) plus illains or Barbon ⊓ 0¢2 ecovery stage for deeply discharged batteries Automatic diagnosis of battery status and battery Life Test function (Battery - Rathery Low or Care) Switching technology with high efficiency _ Ratlery Renkorement Protected against short circuit, overload and inverted polarity Output dry contact for signaling Low Battery or Battery Replacement and Fault Output dry contact for signaling Mains or Backup Sart From Batter IP20 protection degree Space saving on DIN rai Safety and warning notes NARNING – Explosion Hazard Do not disconnect Equipment unless power has been switched off or the area is known to be non-hazardous.

WARNING - Explosion Hazard Substitution of components may impair suitability for class I. Division 2 WARNING - Capasian'i razano sudestinon or components may impart subation for Gass is Devision? E WARNING - Switch off the system before connecting the module. Never work on the machine when it is live. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with UL508 or UL60950. The device must be installed in according with ulf and which is a solution to ide. Danger of fatal light in the solution of the must be installed with the solution of the solution of the solution of the must be installed wi

Connection (terminal and wiring):

Cable C	onnection	: I ne tollow	ring cable	cross-sections	may be use	IO:		
		Stranded	AWG	Torque (Nm)	Stripping	All In One		1 Phase L N PE
	(mm ²)	(mm ²)			Length	(Size)	Input AC	Input AC
les.	0.2 - 2.5	0.2 - 2.5		0.5 – 0.6 Nm	7 mm	Size 1 and 2		
ID.		6.0			7 mm	Size 3 and 4		
Out	0.2 - 2.5	0.2 - 2.5			7 mm	Size 1 and 2		
Out.		6.0			7 mm	Size 3 and 4		··· / F+
Signal:					7 mm	All types		
								opper cables that a
designe	d for opera	ting temper-	atures of :	> 75 °C. Wiring t	terminal sha	all be marked t	o indicate the prop	per connection for t
power s	upply.							

Output Power connections:

DC BUS Normal connection

Normal connection Typical application for All In One device, one output for Load "DC Bus", one input/Output for connection to the battery. N°1 battery (12 Vdc) for CBI 12xx; N°2 battery (12 Vdc) connected in Series for CBI 24xx; Nº4 battery (12 Vdc) connected in Series for CBI 48xx

DC BUS Parallel connection "Redundancy"

Parallel connection "Redundancy" Power supples can be paralleled for 1+1 redundancy to obtain a higher system availability. Redundant systems require a certain around of extra gover to support the load in case one power supply unit fails. The simplest way is to put two CBI in parallel. In case one power supply unit fails, the other one submachail and be to support the load current without any interruption. This simple way to build a read-back stay splem have two additionality and the stay of the load current without any interruption. The faulty power supply can not be recognized

 The Diagnosis LED will give the information about the status of the Load and the Battery (see Display Signals for more data). It does not cover failures such as an internal short circuit in the secondary side of the power supply. In such a - virtually nearly impossible - case, the defective unit becomes a load for the other power supplies and the output voltage can not be maintained any more. This can only be avoided by utilizing decoupling diodes which are included in the Redundancy Module MR220. Recommendations for building redundant power systems: a) Use separate input fuses for each CBL b) Monitor the individual CBI units by three LED. Each unit has two relay: Mains or backup and Low Battery or Battery Replacement (faulty situation). This feature reports a faulty unit; see Relay Contact Rating for any technical detail. c) When possible, connect each power supply to different phases or circuits.

Parallel connection "Double Power'

 One output for the Load and One output for the battery.
 a) Use separate input tuses for each CBI.
 b) The connections does not provide any preparation...vit the connection to the RAS cable also with the two devices affectly powered, make sure that the two CBI have the same settings (battery type, charging level current, time buffering, whater (which grave) all the same settings (battery type, charging level current, time buffering, whater (which grave) all the sale signals) and one as the Slave (diagnosis LED always ON) without a default choice.
 c) Use the alarm contacts of both the two devices. c) Use the alarm contacts of both the two devices. For Start Battery without mains voltage, push start button on both units. The models with software for parallel ("P" suffix) can be used alone simply not connecting with each other with the RJ45

DC BUG



Power supplies can be paralleled for 1+1=2 parallel to obtain a the double power of a single unit. The possibility to put in parallel connection it is only in SIZE 3 devices in the specific "P^T version (i.e. CBI2420AP), to be reach the sum of the current at the same

output voltage. It is necessary to use a standard UTP cable RJ45 to connect Aux2 of each device. The communication protocol is

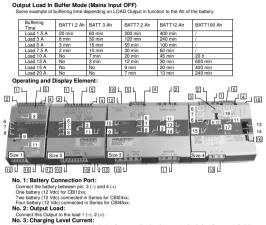
based on CAN2.0A standard. In this way the system have only

supplies of the same type. d) Earthing of the output is required when the sum of the output voltage is above 60Vdc. e) Keep an installation clearance of 10 mm (leftright) between two power supplies and avoid installing the power supplies on top of each other. Note: Avoid return voltage (e.g. from a decelerating motor or battery) which is applied to the output terminals.

Output Load (Mains input ON) The output Load in normal mode, Mains Input Vac Voltage present, follow the charging battery dc output voltage. The minimum ange stabilized are the following: CBI 120x11 – 14,4 Vdc; 155 Vdc for NGC Without battery connected out. Voltage fixed at 12Vdc) CBI 24xx22 – 28 Vdc; 30 Vdc for MGC (Without battery connected out. Voltage fixed at 12Vdc)

CBI 48xx:44 - 57.6 Vdc; 62 Vdc for NiCd (Without battery connected out. Voltage fixed at 48Vdc) Thanks to the All In One units, it will be possible to manage the power. 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 and also the power available for the battery will go to the load if the load requires it. "Power Boost Mode" the maximum current on the bad output is the 2 times the rated current 2 x in (load = in+ hatt) in continuous operation and 3 times the rated current 3 x in (lload = 2in+ lhatt) for 4 seconds: after this

batty in continuous operation and 3 times the rated currer 3 x h (load – 2h+ batt) for 4 seconds; after this parameter the devices is electrically rotected against ownicad and shot circuit.
In Prover Boost Mode, if the current of the battery generate current to the load for a time more than 4 m. Prover Boost Mode, if the current of the battery is discripted. If the Maters of the battery is discripted if the Maters of the battery is discripted in the battery d



In order to protect the battery from excessive charging currents, the device allows you to limit the **.** In order to proceed use battery inform Backastre changing current, she device anoway you to limit the maximum charge current by adjusting the trimmer. It allows you to limit from max in up to 20% of current In. To determine the maximum battery charge current, see the battery manufacturer's Data Sheet, if it is not possible, consider that on average the maximum charge current is 10% of Ab's rated battery current: The data is suitable for both Lead Acid and NiCd batteries

No. 4. 5 Signal Ports (Output Isolated):

Connections for, No. 5: MAINS OR BACKUP: Input Mains On/Off. Contact: 5,6,7 No. 4: LOW BATTERY, BATTERY REPLACEMENT, FAULT BATTERY or FAULT SYSTEM Contact: 8,9,10

Max.DC1: 30 Vdc 1 A; A0	C1: 60 Vac 1A : Resistive load (EN 60947-4-

Signal Output port true table:	e		- Led N°6 Back-Up	Port N°1 - Led N°7 Fault Battery		
		5-6 Closed	5-7 Closed	8-9 Closed (OK)	8-10 Closed	
	ON	Ied off		Ied off		
Mains Input Vac	OFF		Ied On (1)	Ied off		
The battery in BackUP it is less than	YES		Ied On		 led On (2) 	
30% cap?	NO		Ied On	Ied off		
Battery or system	YES	 led off 			 led On 	
Fault?	NÖ	I - led off		Ied off		

Contact relay Mains/Back switch at least 5 seconds after disconnection of Powe

No. 6, 7 and 8 Display Signals

State

Fault

No.6: Led MAINS OR BACKUP: Input Mains On/Off No.7: Led LOW BATTERY (capacity less than 30%), BATTERY REPLACEMENT, FAULT BATTERY or FAULT

Monitoring Control Chart:	State	Led DIAGNOSIS (No.8)	LED BATTERY FAULT (No.7)
Charging	Trickle	1 Blink/2 sec	OFF
Type	Absorption	1 Blink/sec	OFF
i ype	Boost	2 Blink/sec	OFF
	Recovery	5 Blink/sec	OFF
ault Battery / I			
	Reverse polarity or high battery Voltage (over 32.5Vdc for CBI 24xxA)	1 Blink/pause J	ON
	Battery No connected	2 Blink/pause JI	ON
	Element in Short Circuit	3 Blink/pause JII	ON
	Over Load or short circuit on the load	4 Blink/pause JIII	ON
	Bad battery; Internal impedance Bad or Bad battery wire connection	5 Blink/pause JIIIL_	ON
System	Life test not possible	6 Blink/pause JIIII_	ON
Auto	Bad thermal sensor	7 Blink/pause JIIII	ON
Diagnosis	Boost condition; battery discharge after 4 min. of overload.	8 Blink/pause JIII	ON
	Internal fault or illegal configuration jumper	9 Blink/pause JIIII_	ON
	Low battery (under 18.5Vdc for CBI 24xxA) Only if started from battery, no Mains input, from Jumper N°5 or Push Bottom	10 Blink/pause JUUL_	ON
	MODBUS error	11 Blink/pause JUUL	
	Life test not possible; Parallel mode on Slave Device	12 Blink/pause JULL	
	Bad battery wire connection; Parallel mode on Slave Device	13 Blink/pause JUUL	
	Boost condition; battery discharge after 4 min. of overload; Parallel mode on Slave Device	15 Blink/pause JUUL_	

No. 9, 12: Start From Battery Only, (No Mains Vac)

- No. 9, 12: Start From Battery Only, (Mo Mains Vac) No. 9, 12: Start From Battery Only, (Mo Mains Vac) No. 12: Howholtom, for 3 sea, in the ford panel for with ON the system without the "Mains input Vac" but only the battery connected. (Not present in CBI 2410XX and CBI 485XX) No. 12: (Lupmer 5.1) it also available the same atuncion for remeted start from the battery, via RTCONN cable connected in the Push-bottom mounted on front Panel of the external system. Standard Innacion for all products, Size 2 only with code CB2101AS3 and CB148ASAS. Do not leave jumper in this position, otherwise the system will discharge Complexity the battery. Only push bottom. No. 10: https://doi.org/10.1016/j.com/public/j.com/publ

1 Phase Switching Power Supplies L, N, PE

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Size 2 and Size 3 BRIDGE ONLY for input 115 Vac, and connect L, N, PE 668

No. 11: Auxiliary Output "AUX 1"

Remove the window label to find the connector. It is possible to connect the Temperature sensor probe and apply it on the battery. The function of the probe is for temperature battery compression. With this it is possible to active the specifications of the ENS4-4 fire norm.

Size 1.2.3 RJ45 Size 4 RJ11

RUIS Battery Temperature Compensation Charge (not for NiCd) Connecting to Auxiliary Output AUX1 the cable RJTEMP (supplied separately), the CBI will vary the voltage of battery charging depending on the temperature:

Trickle charge +/-3mV/*C x n. of Cells from -20*C to +45*C +120mV/Cell ÷ -120mV/Cell compared to the Fast Charge +/-5mV/°C x n. of Cells from -8°C to +45°C +140mV/Cell ÷ -200mV/Cell compared to the value at 20°C value at 20°C

The device stop to charge the battery if the temperature is less than -20°C or greater than +45°C. The alarm fault battery could be signalled by 7 blink code. The sensor placed on cable PLTEMP must be applied on the batterv. The sensor placed on cable RJTEMP must be applied on the battery. No. 13: Auxiliary Output "AUX 2"

Present only in Sizes 3 and Sizes 4, connection MODBUS via RJ45 connector. See instruction MODBUS communications protocol. (CANBUS to be implemented).

No. 14: Auxiliary Output "AUX 3" iction is the same of Auxiliary Output "AUX 2" nly in Si

Present only in Sizes 4. The function is No. 15: Buffering Time Setting

On models Size 3 and Size 4 is possible to set a buffering time. It can be selected by setting the desired value on the rotary switch 13. Buffering time is initiated when the mains is switched OFF. The LOAD output will be ON for the On models Size 3 and Size 4 is po

Switch position 0 1 2 3 4 5 6 7 8 9										selected time.
	7 8 9	7	6	5	4	3	2	1	0	Switch position
Buffering Time (min.) ∞ 0.5 2 5 10 15 20 30 45 6	30 45 60	30		15	10	5	2	0.5	80	Buffering Time (min.)

If the switch is in position 0, the LOAD output will be in ON state until the battery is completed discharged. Any way to In the amount is in possibility, the Corporation with the batteries when a minimum voltage level is reached. For units Size 1 or 2 you have to version with the extension CR5toxxATEx. The LOAD output will be in ON state until the battery it is completed discharged. It is however possible to request factory customized versions with specific

No. 16: Bus Termination (Size 4)

Caution: Switch off the system before Setting the Jumper. Read the MODBUS/CANBUS instruction manual to learn about the operational functions ovoilable Jumper Setting always active during all states of the system

No. 17: Selection Out Voltage (Sizes 4)

	system before Setting the	Jumper.
Functional Setting		Function
Output Voltage selection	- 12 Vdc	12V Output Voltage
Output Voltage selection	24 Vde	24V Output Voltage Default setting

No. 18: Battery Management Configurations (Sizes 1.2.3.4)

Preliminary Operations: One device for all battery types. Fremminary Operations. One devices are suitable to charge most batteries types thank to User Selectable charging completely automatic, all devices are suitable to charge most batteries types thank to User Selectable charging curves. They can charge open lead acid, sealed lead acid, Gel, Ni-Cd and Ni-MH batteries. It is possible to change or add other charging curves connecting the device to a portable PC.

Battery Type Selection	Jumper Position (Size 1)	Jumper Position (Size 2)	Jumper Position (Size 3)	Dip Switch Position (Size 4)	Trickle/Flo at charge (Volt/Cell)	Fast/Bulk charge (Volt/Cell)
Open Lead		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	موموم ففاطع		2.23	2.40
AGM Low			و و و و و مما مرما		2.25	2.40
AGM High			و و و و و و و و و و و		2.27	2.40
Gel Battery			وَوَ		2.30	2.40
Battery Type Selection (NiCd)	Jumper Position (Size 1)	Jumper Position (Size 2)	Jumper Position (Size 3)	Dip Switch Position (Size 4)	Trickle/Float charge	Fast/Bulk charge
Open Lead		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000 (m) (m)		2.23	2.40
(AGM) Low					2.25	2.40
Gel Battery	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		م مورو و		2.30	2.40
NiCd			مما مما وَوَ		1.4V/cell	1.5V/cell

Functional	Setting			Function
Battery Life test ON		₽₽₽ ₽ ₽ Gal Gal	017 Ch	Jumper present or dip switch ON: Life test enabled (not for NiCd)
Fast Charge Enable			INST CHANGE	Jumper present: Fast Charge enabled. It is possible remote Fast Charge enabling by RTCONN cable
"Start from Battery" (without Input Mains) (1)		ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç ç		Switch ON the system without the "Mains input Vac", only the battery is connected. For connection to external Push button use RTCONN cable
UPS active (2)			FAST COMPOSE	Only for CBI243ATB1 CBI245ATB1 and CBI280 RTCONN cable for connection to external Contact.

- 1 Do not leave the jumper in position 5; otherwise, in Backup mode, the battery discharges completely close to For Size 2: must be require CBI2410A/S or CBI485A/S (/S means start with battery functions, otherwise only
- tart with Input Mains) cBl243ATB1 and CBl245ATB1 Replaces the fast charge in:
- Contact closed: back-up (UPS) enabled. It is enabled after 30 sec. Low Battery Detection
- Contact open: Inhibit backup function. No UPS enabled.
 GPI2801224A
- Contact closed: back-up (UPS) enabled
 Contact open: Inhibit backup function. No UPS enabled.

Battery Care

The Battern Care philosophy is based on algorithms that implement rapid and automatic charging, battern charge optimization drawing time, link batterne covery and real time diagnostic during initialitiation and operatios. Elements in short circuit, accidental revense polarity connection, disconnection of the battery, can easily be detected and removed by help of Bink Code of Diagnostis Led, drawing the installation and after sell. Each device is suited for all battery trees it is possible setting predefined curves for Open Lead Acid Sealed Lead Acid Gel N-Cd battery types, it is possible setting precented curres for Open Lead Acto, seake Lead Acto, set, NH-G (option). They guarantees battery reliability in time by contrusvaly testing ther themal impedance status, avoids any possible risk of damages and grants a permanent, reliable and sale connection of the battery to the power supply. The system, through a battery stimulation circuit with algorithms of evaluation of the detected grantmeter, sale to recognize subpliated batteries or batteries with a short-circuid element. Battery Test: Mitomatic. Every 50 sec. check battery connection. Levery 220 minute in trickle charge, maintee the test of the battery efficiency. The Battery Failure Mitos nonitored by relay and led blinking

Diagnostic Type Checks:

Check for accidental disconnection of the battery cables: All In One detects accidental disconnection and immediately switched off the output power.

Battery not connected:

ected no output power If the battery is not connected no output p Test of quality wire connections:

During trickle charge the quality (resistance) on the battery connection is checked every 60 sec. This to detect if the cable connection has been properly made.

Battery in Open Circuit or Sulphated:

Every 20 minute. All In One tests of internal impedance, in trickle charging mode. Reverse Polarity check:

cted with inverted polarity, All In One is automatically protected.

If the battery it is connected with inverted pola Test of battery voltage connections:

c, to prevent connection of wrong battery types, more or less than the nominal voltage. End of Charge check

ately full, the device automatically switch in trickle charging mode. When the battery it is comple

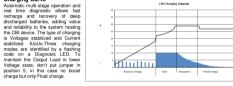
Check for Battery Cells in short circuit Thanks to specific algorithms of evaluation, the CBs recognize batteries with cells in internal short circuit. In trickle charge every 220 minute test of element in short circuit.

Diagnosis of battery and device

All CBI devices support the user during installation and operation. A Blink code of Diagnosis Led allows to discriminate

among various nos Error conditions. "LED Battery Fault" ON and "LED Diagnosis" blinking with sequence: see Display Signal section.

Charging Curve



probable that there is a fault in the device. If happen, the device must be checked in the factory. On the secondary side Battery and load: The device is electrically protected against short circuits and overload. Inversion polarity: the module it is automatically protected against inversion of battery polarity and connection of

Surrounding air temperature 50°C. For ambient temperature of over 50°C, the output current must be reduced by 2.5% per °C. Max 70°C At the temperature of 70°C the output current will be 50% of In. The equipment does not switch off in case of ambient temperature above 70°C or thermal overload. The devices are protected for Over temperature conditions "worst case": in this situations the device Shut-down the output and automatic restart when

Satety of Electrical Equipment Machines: EN 60204-1. € €In According to EMC 2014/30/UE and Low voltage directive 2014/35/UE <u>Mu</u> Approved: EN60950 / UL60950-1 and CSA C22.2 No. 60950-1-07 (Information Technology Equipment) – Safety

All modules must have a minimum vertical and horizontal distance of 10 cm to this power supply in order to guarantee sufficient auto convection. Depending on the ambient temperature and load of the device, the temperature of the housing can become very high.

ifety: mbling: UI 508, JEC/EN, 60950 (VDE, 0805), and EN, 50178 (VDE, 0160), Installation, according: JEC/EN,

Over current and output short circuit: the unit limits the output current (see the technical data).

Deep discharge: not possible. The unit disconnects the battery when a minimum voltage level is reached

Device assembling. Ucso, Ico.ev outso (VDE oros) and Eve Sof7e (VDE oros), installation accord 60950. Input / Output separation: SELV EN 60950-1 and PELV EN 60204-1. Double or reinforced insulatio EMC Standards Immunity: EN 61000-4-2. EN 61000-4-3. EN 61000-4-4. EN 61000-4-5.

EN 61000-6-4. EN 61000-6-3. EN 61000-3-2 (see data sheet for each device)

Part1: General Requirement.
 In According to: IEC/EN 60335-2-29 Battery chargers

DIN41773 (Charging cycle) Emission: IEC 61000-6-4; Immunity: IEC 61000-6-2. CE.

Electrical safety EN54-4 Fire Detection and fire alarm systems;

. pment Machines: EN 60204-1.

Protection Features On the primary side: the device is equipped whit an internally fuse. If the internal fuse is activated, it is most

Thermal behaviour

emperature inside fall

EMC Stand

Rail Mounting:

-B

Standard and Certifications Electrical Safety

ADELSYSTEM

CBI - All in ONE	1		10	Vdo	12/24Vdc			24Vdo		4	www.adelsysten 3Vdc
		I	12	Vdc	12/24Vac		· · · · · ·	24Vdc		40	Svac
	CRH22A	CRIII26A	CRH310A	CRH225A	CB12901224A	CRI242A	CBI245A	CRI2410A	CRI2420A	CBI485A	CRI4840A
odel PUT DATA	CBI123A	CBI126A	CBI1210A	CBI1235A	CBI2801224A	CBI243A	CBI245A	CBI2410A	CBI2420A	CBI485A	CBI4810A
ominal Input Voltage / Tensione d'ingresso nominale	115 – 230 – 277Vac	115 - 230 - 277Vac	115 - 230 - 277Vac	115 / 230 - 277Vac	115 - 230 - 277Vac	115 - 230 - 277Vac	115-230-277Vac	115 / 230 - 277Vac	115 / 230 - 277Vac	115 / 230 - 277Vac	115 / 230 - 277 Vac
put Voltage Range / Campo di funzionamento	90 – 305Vac	90 – 305Vac	90 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 305Vac	90 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac
nrush Current (Vn and In Load) I ² t / Corrente di Inserzione	≤ 36 A ≤ 5msec	≤ 36 A ≤ 5msec	≤ 36 A ≤ 5msec	≤ 80 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 36 A ≤ 5msec	≤ 36 A ≤ 5msec	≤ 42 A ≤ 5msec	≤ 80 A ≤ 5msec	≤ 42 A ≤ 5msec	≤ 35 A ≤ 5msec
requency / Frequenza di Ingresso	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz
put Current (115 – 230Vac) / Assorbimento	2.8 – 1.3A	2.8 – 1.3A	2.8 – 1.3A	8.0 - 4.2A	5.5 –3A	2.8 – 1.3A	2.8 – 1.3A	3.3 – 2.2A	8.0 – 4.2A	3.3 – 2.2A	8.0 – 4.2A
ternal Fuse / Fusibile Interno (non sostituibile) xternal Fuse (recommended) / Fusibile Esterno raccomandato	4A 10A	4A 10A	4A 10A	10A 16A	6.3A 16A	4A 10A	4A 10A	6.3A 16A	10A 16A	6.3A 16A	10A 16A
UTPUT DATA		10.1	1071	1011		1011	10/1	1071	10/1	10/1	10/1
utput Vdc / I _N / Tensione di uscita Vdc / I _N	12Vdc - 3A	12Vdc - 6A	12Vdc - 10A	12Vdc - 35A	12Vdc 15A / 24Vdc 10A	24Vdc - 3A	24Vdc - 5A	24Vdc - 10A	24Vdc - 20A	48Vdc - 5A	48Vdc - 10A
utput Current (In)	3A	6A	10A	35A	15A 12Vdc / 10A 24Vdc	3A	5A	10A	20A	5A	10A
issipation Power load max (W) inimum load / Carico minimo	15 No	18 No	25 No	68 No	28 No	18 No	25 No	48 No	68 No	48 No	68 No
fficiency (50% of In) / Rendimento tipico	≥ 89%	≥ 89%	≥ 89%	> 90%	> 91%	≥ 89%	≥ 89%	≥ 83%	> 90%	≥ 83%	> 91%
nort-circuit protection / Protezione contro il corto circuito	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ver Load protection / Protezione sovraccarico	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ver Voltage Output protection / Protezione sovratemberatura	Yes (Typ. 35Vdc) Yes	Yes (Typ. 35Vdc)	Yes (Typ. 35Vdc) Yes	Yes (Typ. 35Vdc)	Yes (Typ. 35Vdc) Yes	Yes (Typ. 35Vdc) Yes	Yes (Typ. 35Vdc) Yes	Yes (Typ. 35Vdc) Yes	Yes (Typ. 35Vdc) Yes	Yes (Typ. 90Vdc) Yes	Yes (Typ. 90Vdc) Yes
verheating Thermal Protection / Protezione sovratemperatura	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Yes	Yes	Yes	Yes
Ifated battery check / Controllo batteria solfatata	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Deep Switch	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper
OAD OUTPUT / USCITA CARICO		-			·						
utput voltage (at at IN) Vdc / Tensione di uscita (a IN) Vdc	10 - 14.4Vdc (15.5Vdc for Ni-Cd) 10 - 14.4Vdc (15.5Vdc for Ni-Cd	10 - 14.4Vdc (15.5Vdc for Ni-Co	i) 10 – 14.4Vdc (15.5Vdc for Ni-Cd)	10 – 14.4Vdc (15.5Vdc for Ni-Cd) 22 – 28.8Vdc (31Vdc for Ni-Cd)	22 – 28.8Vdc (31Vdc for Ni-Cd)	22 - 28.8Vdc (31Vdc for Ni-Cd	i) 22 – 28.8Vdc (31Vdc for Ni-Cd)	22 - 28.8Vdc (31Vdc for Ni-Cd)	44 – 57.6Vdc (62Vdc for Ni-Cd)	44 – 57.6Vdc (62Vdc for
tart up with strong load (capacitive load)/ Start up con carichi capacitivi	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited
esidual Ripple / Ripple Residuo	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp		≤ 60 mVpp	
ominal Current IN = Iload ontinuous current (without battery) Iload = In	1.1 x ln A ± 5% 3A	1.1 x In A ± 5%	1.1 x ln A ± 5% 10A	1.1 x In A ± 5% 35A	1.1 x ln A ± 5% 15A 12Vdc / 10A 24Vdc	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x ln A ± 5% 10A	1.1 x In A ± 5% 20A	1.1 x In A ± 5%	1.1 x ln A ± 5%
ax continuous current (with battery) Iload = In + Ibatt	6A	12A	20A	70A	30A 12Vdc / 20A 24Vdc	6A	10A	20A	40A	10A	20A
ax current Output Load: (Main Input) Iload (4sec.)	9A max	18A max	30A max	105A max	max. 45A 12Vdc / 30A 24Vdc	9A max	15A max	30A max	60A max	15A max	30A max
ax current Output Load: (Back Up) Iload (4sec.)	6A max	12A max	20A max	70A max	max. 30A 12Vdc / 20A 24Vdc	6A max	10A max	20A max	40A max	10A max	20A max
ush Button or Remote Input Control (AMP type connector) Start from Battery without main	No (1)	No (1)	No (1)	Yes	Yes	No	No	No	Yes	No	Yes
me Buffering; (switch off output without main input)	(2)	(2)	(2)	0.5;1;3;5;10;15; 20; 30; 45;60;∞	0.5;1;3;5;10;15; 20; 30; 45;60;∞	(2)	(2)	5 min standard - Require: SW S31			
hreshold alarm Battery almost flat	10 – 11 Vdc batt	10 – 11 Vdc batt	10 - 11 Vdc batt	10 - 11 Vdc batt	10 - 11 Vdc batt / 20 - 21 Vdc batt	20 – 21 Vdc batt	20 – 21 Vdc batt	20 – 21 Vdc batt	20 – 21 Vdc batt	40 – 42 Vdc batt	40 – 42 Vdc batt
rotections against total discharge ATTERY CHARGER OUTPUT / USCITA CARICA BATTERIA	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt / 19 – 20 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	38 – 40 Vdc batt	38 – 40 Vdc batt
ulk charge (Typ. at I _N) / Carica Veloce	14.4Vdc	14.4Vdc	14.4Vdc	14.4Vdc	14.4Vdc / 28.8Vdc	28.8Vdc	28.8Vdc	28.8Vdc	28.8Vdc	57.6Vdc	57.6Vdc
hort circuit Element Detection / Relevazione elemento in corto circuito	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ax.Time Boost–Bulk charge (Typ. at I_N) / Tempo massimo Carica Veloce	15h	15h	15h	15h	15h	15h	15h	15h	15h	15h	15h
in.Time Boost–Bulk charge (Typ. at I _N) / Tempo minimo Carica Veloce rickle-Float charge (Typ. at I _N) / Carica di mantenimento	1min. 13.75Vdc	1min. 13.75Vdc	1min. 13.75Vdc	1min. 13.75Vdc	1min. 13.8Vdc / 27,6Vdc	1min. 27.5Vdc	1min. 27.5Vdc	1min. 27.5Vdc	1min. 27.5Vdc	1min. 55Vdc	1min. 55Vdc
ecovery Charge / Carica di recupero	2 – 9Vdc	2 – 9Vdc	2 – 9Vdc	2 – 9Vdc	2 - 10Vdc / 2 - 20Vdc	27.5Vdc 2 – 16Vdc	27.5Vdc 2 – 16Vdc	27.5vdc 2 – 16Vdc	27.5Vdc 2 – 16Vdc	2 – 24Vdc	2 – 24Vdc
urn-On delay after applying mains voltage / Accensione con tensione di rete	1sec. Max	1sec. Max	1sec. Max	1sec. Max	3sec. Max	1sec. Max	1sec. Max	1.5sec. Max	1sec. Max	1.5sec. Max	1sec. Max
	0.3A	0.3A	0.3A	0.3A	6% of charging current limiting	0.3A	0.3A	0.3A	0.3A	0.3A	0.3A
nd of charging current (Bulk charge)				35A ± 5%		3A ± 5%	5A ± 5%	10A ± 5%	20 A ± 5%		10A ± 5%
	3A ± 5%	6A ± 5%	10A ± 5%		15A ± 5% 12Vdc / 10A ± 5% 24Vdc					5A ± 5%	
harging max I _{batt} / Corrente max. di Carica		6A ± 5% 20 ÷ 100 % / I _{batt}	10A ± 5% 20 ÷ 100 % / I _{batt}	10 ÷ 100 % / I _{batt}	15A ± 5% 12Vdc / 10A ± 5% 24Vdc 10 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}	10 ÷ 100 % / I _{batt}	5A ± 5% 20 ÷ 100 % / I _{batt}	10 ÷ 100 % / I _{batt}
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{adj}) / Limitazione Corrente di Carica	3A ± 5%				10 ÷ 100 % / I _{batt}		20 ÷ 100 % / I _{batt}		10 ÷ 100 % / I _{batt}		10 ÷ 100 % / I _{batt}
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{sdi}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria	3A ± 5%				10 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}		10 ÷ 100 % / I _{batt} ≤100mA		10 ÷ 100 % / I _{batt} ≤100mA
narging max I _{batt} / Corrente max. di Carica narging current Limiting I _N (I _{adj}) / Limitazione Corrente di Carica imper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. amote Input Control (AMP Type connector)	3A ± 5% 20 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}	20 ÷ 100 % / I _{batt}	10 ÷ 100 % / I _{batt}	10 ÷ 100 % / I _{bat} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt}		20 ÷ 100 % / I _{batt}	
harging max I _{bait} / Corrente max. di Carica harging current Limiting I _N (I _{sci}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica	3A ± 5% 20 ÷ 100 % / I _{batt} \$100mA	20 ÷ 100 % / I _{batt} ≤100mA	20 ÷ 100 % / I _{batt} ≤100mA	10 ÷ 100 % / I _{batt} ≤100mA	10 ÷ 100 % / I _{bat} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ≤100mA	≤100mA	20 ÷ 100 % / I _{batt} ≤100mA	≤100mA
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{bati}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA	3A ± 5% 20 ÷ 100 % / I _{batt} \$100mA	20 ÷ 100 % / I _{batt} ≤100mA	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	10 ÷ 100 % / I _{batt} ≤100mA	10 ÷ 100 % / I _{bat} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	≤100mA Bulk / Trickle
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{bdl}) / Limitazione Corrente di Carica harging current Jonsumo I (bill optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. haracteristic Correl (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power	3A ± 5% 20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ≤100mA	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	10 ÷ 100 % / k _{utt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au	20 ÷ 100 % / I _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle	20 ÷ 100 % / I _{batt} ≤100mA	≤100mA	20 ÷ 100 % / I _{batt} ≤100mA	≤100mA
harging max l _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{but}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria ulescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery ault Battery	3A ± 5% 20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes	10 ÷ 100 % / l _{batt} ≤100mA Bulk / Trickle Yes	10 ÷ 100 % / l _{oatt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au	20 ÷ 100 % / I _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes	20 ÷ 100 % / k _{oat} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle	≤100mA Bulk / Trickle Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes	≤100mA Bulk / Trickle Yes
harging max h _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{sul}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery ault Battery UXILIARY OUTPUT	3A ± 5% 20 ÷ 100 % / I _{batt} 5100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	10 ÷ 100 % / l _{oatt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes	20 ÷ 100 % / k _{sat} Lead, 2.3 V/cell gel; NiCd 1.51V \$100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	S100mA Bulk / Trickle Yes Yes Yes
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{adi}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura	3A ± 5% 20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au Yes Yes	20 ÷ 100 % / I _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes	20 ÷ 100 % / I _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V \$100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes	S100mA Bulk / Trickle Yes Yes Yes Yes
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{bet}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo	3A ± 5% 20 ÷ 100 % / I _{batt} 5100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	10 ÷ 100 % / l _{oatt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes	20 ÷ 100 % / k _{sat} Lead, 2.3 V/cell gel; NiCd 1.51V \$100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes
harging max l _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{bet}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria ulescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery ault Battery UXILIARY OUTPUT mp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS	3A ± 5% 20 ÷ 100 % / I _{batt} 5100mA Bulk / Trickle Yes Yes Yes	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes No	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No	10 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes RJ45 No	20 ÷ 100 % / I _{batt} <pre>\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes</pre>	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes
harging max l _{batt} / Corrente max. di Carica harging current Limiting I _N (l _{bati}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power w Battery uut Battery UXILIARY OUTPUT amp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes RJ45 No No No	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes No No No	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No -25 ÷ +70°C	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes Yes 25 ÷ +70°C	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Yes Solution No No	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes No No -25 ÷ +70°C	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No -25 ÷ +70°C	\$100mA Bulk / Trickle Yes
harging max b _{att} / Corrente max. di Carica harging current Limiting I _N (I _{but}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power w Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In)	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(ln) / °C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(ln) / °C	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C	10 ÷ 100 % / l _{uatt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / b _{ott} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes 25 ÷ +70°C > 50° -2.5%(ln) / °C	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No No No -25 ÷ +70°C > 50° • 2.5%(In) / °C	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° - 2.5%(ln) / °C
harging max b _{att} / Corrente max. di Carica harging current Limiting I _N (I _{std}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÊ USCITA ain or Backup Power ow Battery UXILARY OUTPUT emp. Charging probe / Carica compensata in temperatura araIlel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino	3A ± 5% 20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes So * -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	10 ÷ 100 % / l _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	10 ÷ 100 % / l _{batt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes Yes Yes 25 ÷ +70°C > 50° -2.5%(ln) / °C 40 ÷ +85°C	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Yes Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C	20 ÷ 100 % / b _{ott} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Solution No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes So So 2.5 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 + +70°C > 50° - 2.5%(In) / °C -40 + +85°C
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{batt}) / Limitazione Corrente di Carica imper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. amote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica GNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power wa Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo DDBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(ln) / °C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No No -25 ÷ +70°C > 50° -2.5%(ln) / °C	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C	10 ÷ 100 % / l _{uatt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / b _{ott} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes 25 ÷ +70°C > 50° -2.5%(ln) / °C	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes No No No No -25 ÷ +70°C > 50° • 2.5%(In) / °C	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° - 2.5%(ln) / °C
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{sut}) / Limitazione Corrente di Carica imper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica GRAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power wa Battery UNILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo DOBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro a rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità pooling / Raffreddamento	3A ± 5% 20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes 25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	10 ÷ 100 % / l _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tornatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	20 ÷ 100 % / k _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Sov 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{but}) / Limitazione Corrente di Carica imper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica GNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery UXILIARY OUTPUT mp. Charging probe / Carica compensata in temperatura trallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) nibient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità poling / Raffreddamento ENERAL DATA plation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT)	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C > 50° -2.5%(ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° +2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C -25 ÷ +70°C -25 % (ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac	10 ÷ 100 % / k _{utt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes 25 ÷ 70°C > 50° - 2.5%(ln) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 30000Vac	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Yes <td>20 ÷ 100 % / k_{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes Yes</td> <td>20 ÷ 100 % / I_{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye</td> <td> ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes Yes > 50° -2.5%(ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac </td> <td>20 ÷ 100 % / I_{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° +2.5%(ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac</td> <td>≤100mA Bulk / Trickle Yes -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 30000Vac</td>	20 ÷ 100 % / k _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	 ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes Yes > 50° -2.5%(ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° +2.5%(ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac	≤100mA Bulk / Trickle Yes -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 30000Vac
harging max I _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{bati}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÉ USCITA ain or Backup Power bw Battery uXILIARY OUTPUT mp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro er rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità oologing / Raffreddamento ENERAL DATA olation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) olation Voltage (IN / PE) / Tensione di Isolamento (IN / TERRA)	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes -25 ÷ +70°C >50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°°C Auto Corvection 3000Vac 1605Vac	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Sooo >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Solution Yes Yes Yes Yes Yes Yes Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Solution No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	 ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	≤100mA Bulk / Trickle Yes -25 ÷ +70°C > 50° -2.5%(ln) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac
harging max b _{att} / Corrente max. di Carica harging current Limiting I _N (I _{wd}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power bw Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità ooling / Raffreddamento ENERAL DATA olation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) olation Voltage (IN / PE) / Tensione di Isolamento (IN / TERRA) olation Voltage (UN / PE) / Tensione di Isolamento (UT/TERRA)	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes S Yes S Yes S Yes Yes Yes S Yes Yes Yes Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So × 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Stage / IUoUo, Automatic Yes Yes Stage / Stage Yes Yes Stage / Stage Yes Stage / Stage Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes So × 50° × 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So × 25 ÷ +70°C > 50° − 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac
harging max I _{bait} / Corrente max. di Carica harging current Limiting I _N (I _{sei}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA lain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità ooling / Raffreddamento ENERAL DATA olation Voltage (IN / VUT) / Tensione di Isolamento (IN / OUT) olation Voltage(IN / PE) / Tensione di Isolamento(IN / TERRA) olation Voltage(OUT / PE) / Tensione di Isolamento(IV / TERRA) olation Voltage(OUT / PE) / Tensione di Isolamento(IV / TERRA)	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes -25 ÷ +70°C >50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°°C Auto Corvection 3000Vac 1605Vac	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle tomatic, 3 stage / IUoUo, Automatic Yes Sooo >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Solution Yes Yes Yes Yes Yes Yes Auto Convection 3000Vac 1605Vac	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Solution No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	 ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes ·25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac
harging max l _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{scij}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria tuiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IICNAL OUTPUT (RELAY) / SEGNALAZIONE RELÊ USCITA lain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo IODBUS ILIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità ooling / Raffreddamento IENERAL DATA Iolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) iolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) iolation Voltage (IN / DE / Tensione di Isolamento (IN / TERRA) iolation Voltage (IN / DE) / Tensione di Isolamento (IN / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento (IN / TERRA) iolation Voltage (IN / DE) / Tensione di Isolamento (IN / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento (IN / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA) iolation Voltage(IN / E) / Tensione di Isolamento(UT / TERRA)	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes Solo -25 ÷ +70°C > 50° • 2.5%(in) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes -25 ÷ +70°C > 50° -2.5%(In) / °C 40 ÷ 485°C 35% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Stage / IUoUo, Automatic Yes Yes Stage / Stage Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Soo 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	≤100mA Bulk / Trickle Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20
harging max l _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{scij}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria tuiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IRONAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA lain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo IODBUS ILIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità colation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) iolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) iolation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) iolation Voltage (IN / DE) / Tensione di Isolamento (UN / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento (UN / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento (UN / TERRA) iolation Voltage (IN / E) / Tensione di Isolamento (UN / TERRA) iolation Voltage (EN/IEC 60529) / Protezione Classe eliability (MTBF IEC 61709) / Affidabilità ollution Degree Environment / Grado d'inquinamento ambientale	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes Solo -25 ÷ +70°C > 50° • 2.5%(in) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes RJ11 No Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG)	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Stage / IUoUo, Automatic Yes Yes Stage / Stage Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Soo 25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	 ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° · 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20
ooling / Raffreddamento SENERAL DATA solation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) solation Voltage(IN / PE) / Tensione di Isolamento(IN / TERRA) solation Voltage(OUT / PE) / Tensione di Isolamento(OUT/TERRA) rotection Class (EN/IEC 60529) / Protezione Classe eliability (MTBF IEC 61709) / Afridabilità Ollution Degree Environment / Grado d'inquinamento ambientale connection Terminal Blocks Screw Type / Dimensione morsetti rotection class (with PE connected) /	3A ± 5% 20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No No -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	10 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C -25 ÷ +70°C -25 ÷ +70°C -25 ÷ +70°C -25 ÷ +70°C -25 ÷ 470°C -25 ÷ 25 °C -25 °C	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c ≤100mA Bulk / Trickle IUoUo, Au Yes Yes Yes Yes RJ11 No Yes -25 ÷ +70°C > 50° -2.5%(In) / °C 40 ÷ 485°C 35% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Soor Soft Job Soft Soft Job Soft Job Soft Job Soft Job Vac IP 20 > 300 000 h 2	20 ÷ 100 % / k _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes So Yes RJ45 No No -25 ÷ +70°C > 50° -2.5%(n) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / Ibatt \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So Yes So Yes Yes Yes Yes Yes Yes Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1P 20 > 300 000 h 2
harging max h _{sat} / Corrente max. di Carica harging current Limiting I _N (I _{wij}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria uiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA ain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo ODBUS LIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità ooling / Raffreddamento EINERAL DATA olation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) olation Voltage (IN / DE) / Tensione di Isolamento (IN / OUT) olation Voltage (IN / DE) / Tensione di Isolamento (IN / TERRA) olation Voltage (IN / DE) / Tensione di Isolamento (IN / TERRA) olation Voltage (IN / DE) / Tensione di Isolamento (IN / DUT) olation Voltage (IN / DE) / Tensione di Isolamento (IN / DUT) olation Degree Environment / Grado d'inquinamento ambientale onnection Teminal Blocks Screw Type / Dimensione morsetti rotection class (with PE connected) / rated in protezione (caco di terra collegato)	3A ± 5% 20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No No -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	10 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C -25 ÷ +70°C -25 ÷ +70°C -25 ÷ +70°C -25 ÷ +70°C -25 ÷ 470°C -25 ÷ 25 °C -25 °C	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes RJ11 No Yes 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG)	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Soor Soft Job Soft Soft Job Soft Job Soft Job Soft Job Vac IP 20 > 300 000 h 2	20 ÷ 100 % / k _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes So Yes RJ45 No No -25 ÷ +70°C > 50° -2.5%(n) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / Ibatt \$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So Yes So Yes Yes Yes Yes Yes Yes Yes Yes	≤100mA Bulk / Trickle Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes RJ45 No No -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2	\$100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac 1605Vac 500Vac 1P 20 > 300 000 h 2
harging max l _{batt} / Corrente max. di Carica harging current Limiting I _N (I _{scij}) / Limitazione Corrente di Carica umper Config.Type Battery (NiCd optional) / Configurazione Tipo Batteria tuiescent Current / Consumo da batteria max. emote Input Control (AMP Type connector) haracteristic Curve / Caratteristiche di Carica IGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÊ USCITA lain or Backup Power ow Battery ault Battery UXILIARY OUTPUT emp. Charging probe / Carica compensata in temperatura arallel connection / Connessione in parallelo IODBUS ILIMATIC DATA mbient Temperature operation / Temperatura Ambiente di Lavoro e rating T ^a > (In) / De rating T ^a > (In) mbient Temperature Storage / Temperatura max. Magazzino umidity at 25 °C / Umidità ooling / Raffreddamento IENERAL DATA rolation Voltage (IN / OUT) / Tensione di Isolamento (IN / OUT) olation Voltage (IN / DF) / Tensione di Isolamento (IN / OUT) olation Voltage (IN / DF) / Tensione di Isolamento (IN / TERRA) orotection Class (EN/IEC 60529) / Protezione Classe eliability (MTBF IEC 61709) / Affidabilità Ollution Degree Environment / Grado d'inquinamento ambientale onnection Terminal Blocks Screw Type / Dimensione morsetti	3A ± 5% 20 ÷ 100 % / I _{bat} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes RJ45 No No 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 2,5mm (24-14 AWG) I	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So 25 ÷ +70°C > 50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 2,5mm (24-14 AWG) I	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So × 50° −2.5%(In) / °C −40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 2,5mm (24-14 AWG) I	10 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Yes -25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1805Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG) I	10 ÷ 100 % / I _{batt} 2.23 V/cell Open Lead, 2.25 V/c \$100mA Bulk / Trickle IUoUo, Au Yes Yes Yes S Yes S Yes S 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG) 2.5mm(24-14 AWG) I	20 ÷ 100 % / l _{batt} ell Sealed Lead, 2.27 V/cell Sealed ≤100mA Bulk / Trickle itomatic, 3 stage / IUoUo, Automatic Yes Yes Yes Yes Yes Yes Soft * 2.5% (In) / *C -40 ÷ +85*C 95% to 25*C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 2.5rm (24-14 AWG) I	20 ÷ 100 % / l _{batt} Lead, 2.3 V/cell gel; NiCd 1.51V ≤100mA Bulk / Trickle to a 3 Stadi Yes Yes Yes Yes Yes Yes Yes Yes	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes Ye	 ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ 485°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG) I 	20 ÷ 100 % / I _{batt} ≤100mA Bulk / Trickle Yes Yes Yes Yes Yes Yes Yes So × 25 ÷ +70°C > 50° - 2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac I P 20 > 300 000 h 2 2,5mm (24-14 AWG) I	≤100mA Bulk / Trickle Yes -25 ÷ +70°C >50° -2.5%(In) / °C -40 ÷ +85°C 95% to 25°C Auto Convection 3000Vac 1605Vac 500Vac IP 20 > 300 000 h 2 4mm (30-10 AWG) I

All specification are subject to change without note