| - | CBI123A | Features:Input: Single-phase 115 - 277 VAC |
|---|--|--|
| A BRANDINGER | ODITZUA | Output Load: power supply 12 VDC; 3 A |
| A DESCRIPTION OF THE OWNER. | | Output: Battery charging 12 VDC; 3 A |
| Contraction of the | DC UPS | Suited for the following battery types: |
| and the second | | Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option) |
| Hand Street | _ | Automatic diagnostic of battery status. |
| Series States | 颵 🔊 🐼 CE 🛄 | Switching technology, output voltage 10-14.4 VDC |
| | | Three charging levels: Boost, trickle and recovery |
| | E353188 | Protection degree IP20 - DIN rail mountable |
| and the second | | |
| INPUT | Cat. No. | CBI123A |
| | Nominal Input Voltage | 115 ~ 230 ~ 277 VAC |
| | Voltage range | 90 – 305 VAC |
| | Inrush Current (V _n – I _n nom. Load). I ² t | \leq 11 A \leq 5 msec |
| | Frequency | 47 – 63 Hz |
| | Input Current (115 – 230 VAC) | 2.8 ~ 1.3 A |
| | Internal fuse (factory replaceable) | 4 A |
| | External Fuse (recommended) MCB curve B | 10 A |
| OUTPUT | | 10 A |
| | Output Voltage (V _n) / Nominal Current (I _n) | 12 VDC / 3A |
| | Output Current In | 3 A |
| | Efficiency (at 50% of rated current) | \geq 90 % |
| | Turn-On delay after applying input voltage | 1 sec. (max) |
| | Start up with Strong Load (capacitive load) | Yes, Unlimited |
| | Dissipation power load max | 9 W |
| PROTECTION | | |
| | Short-circuit protection | Yes |
| | Over Load protection | Yes |
| | Over Voltage Output protection | Yes (typ. 35 VDC) |
| LOAD | Over Temperature protection | Yes |
| OUTPUT | | |
| and the second se | Output voltage (at I _n) | 10 ~ 14.4 VDC |
| | Nominal current I _{load} | 1.1 x ln A ± 5% |
| | Continuous current (without battery) I _{load} = I _n | 3 A |
| | Continuous current (with battery) $I_{load} = I_n + I_{batt}$ | 6 A |
| | Max. Current Output Load (Main) III _{load} (4 sec.) | 9 A max. |
| | Max. Current Output Load (Back Up) I _{load} (4 sec.) | 6 A max. |
| | Push Button or Remote Input Control (RTCONN cable) | Start From Battery Without Main |
| | Time Buffering; min (switch output off without main input) | ∞: standard 5 min.: Require SW |
| | Protection alarm against total discharge | 9-10V DC battery |
| BATTERY | , , , , , , , , , , , , , , , , , , , | , |
| OUTPUT | Threshold alarm for battery almost flat | 10-11 V DC battery |
| 001101 | Poost shares $(25 ^{\circ}\text{C})$ (ct I) | 14.4 VDC |
| | Boost charge (25 °C) (at I _n) Max. time Bust Charge | |
| | 5 | 15 h |
| | Min. time Bust Charge | 1 min. |
| | Trickle charge (25 °C) (at I_n) | 13.75 VDC |
| | Jumper Configuration battery type (V cell) Ni-Cd (optional) | 2.23; 2.25; 2.27; 2.30; NiCd: 1.50 (10 elem.) |
| | Recovery Charge | 2 ~ 9 VDC |
| | Charging current max I _{batt} | $3A \pm 5\%$ |
| | Charging current limiting I _{adj} | 20 – 100 % / Ibatt |
| | Reverse battery protection | Yes |
| | Sulfated battery check | Yes by Jumper |
| | Detection of element in short circuit | Yes |
| | Quiescent Current | \leq 5 mA |
| | | |
| | Charging Curve automatic: I_{UoUo} | 3 stage |
| OTHEDS | | 3 stage Boost /Trickle / Recovery |
| OTHERS | Charging Curve automatic: I _{UoUo} Remote Input Control (RTCONN cable) | Boost /Trickle / Recovery |
| OTHERS | Charging Curve automatic: I _{UoUo} Remote Input Control (RTCONN cable) Ambient temperature (operation) | Boost /Trickle / Recovery -25 – +70°C |
| OTHERS | Charging Curve automatic: I_{UOUO} Remote Input Control (RTCONN cable) Ambient temperature (operation) De Rating Ta > 50°C | Boost /Trickle / Recovery -25 - +70°C - 2.5%(ln) / °C |
| OTHERS | Charging Curve automatic: I_{UOU0} Remote Input Control (RTCONN cable)Ambient temperature (operation)De Rating Ta > 50°CAmbient temperature Storage | Boost /Trickle / Recovery -25 - +70°C - 2.5%(In) / °C -40 - +85°C |
| OTHERS | Charging Curve automatic: I_{UoUo} Remote Input Control (RTCONN cable)Ambient temperature (operation)De Rating Ta > 50°CAmbient temperature StorageHumidity at 25 °C no condensation | Boost /Trickle / Recovery -25 - +70°C - 2.5%(ln) / °C |
| OTHERS | Charging Curve automatic: I_{UOU0} Remote Input Control (RTCONN cable)Ambient temperature (operation)De Rating Ta > 50°CAmbient temperature Storage | Boost /Trickle / Recovery -25 - +70°C - 2.5%(ln) / °C -40 - +85°C |

CBI123A DC UPS

The Altech DC-UPS system is built to optimize power management. The available power is automatically allocated between load and battery, supplying power to the load is the first priority. For high inrush applications the charging power will reroute automatically to the load. In this case the maximum available current on the load output is two times the value of the device rated current.

The Battery Care concept based on algorithms that achieve rapid and automatic charging, battery optimization during charging time, flat batteries recovery and real time diagnostic The Real Time Auto-diagnostic system, monitors battery faults, sulfated battery, short circuit battery elements, reverse polarity connection, battery disconnect. This conditions are detected and identified by the number of blinks of the diagnosis Led.

Yes

Signal Output Contacts

| Main or Backup Power | | |
|--------------------------------------|--|--|
| Battery Power Low | | |
| Battery Fault | | |
| Max. Current Rating (Resistive Load) | | |
| Minimum Permissible Current Rating | | |

Yes Yes 1A 30 VDC/60 VAC 1mA @ 5 VDC

Yes - Optional

Yes - Optional

3000 VAC

1605 VAC

500 VAC

IP20

No

RJ45 Connection Input / Output

Temp. Comp. Battery (with ext. probe) Remote monitoring display Can Bus

Environment

Insulation voltage (IN/OUT) Insulation voltage (input / ground) Insulation voltage (Output / ground) Protection Class (EN/IEC 60529) Pollution Degree Environment Connection TB, Screw Terminal Protection class (Ground Connected) Dimensions (WxHxD) 2.56x4.53x5.32 in Weight (approx.)

2 2,5 mm² (24–14AWG) Class I 65x115x135 mm

0.6 kg (1.35 Lbs)

Safety and EMC

| Battery charger standard compliance | IEC/EN 60335-2-29 |
|-------------------------------------|-----------------------|
| Safety standards compliance: | EN60950 / UL1950 / CE |
| Fire Detection and alarm compliance | EN54-4 |
| EMC Directive | 89/336/EEC |
| Charging cycle | DIN41773 |
| Emission | IEC 61000-6-4 |
| Immunity | IEC 61000-6-2 |

The Altech DC-UPS system is designed to charge and monitor all battery types, by selecting the battery type via jumpers. The predefined curves include Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (optional) battery types. The charging curve are programmed to automatically switch between Recovery Charge, Boost charge and Trickle charge. The continuous battery efficiency monitoring, reduces battery damage risk and allows a safe operation in permanent connection.

A compact and rugged metal case with DIN rail mounting bracket provide an easy installation and an IP20 protection.

Jumper for Battery Type Selection



