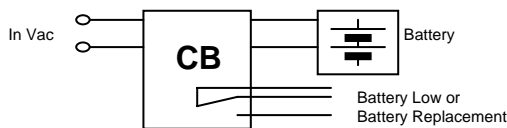


CB126A Battery Charger



Input: Single-phase 115 ÷ 230 VAC

Output: Battery charging 12 VDC; 6 A

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

Automatic diagnostic of battery status. Charging curve UI, constant voltage and constant current.

Switching technology, output voltage 14,4VDC
Two charging levels: Boost and Trickle

Protected against short circuit and inverted polarity

Signal output (contact free) for discharged or damaged battery

Protection degree IP20 - DIN rail or bracket mounting

Technical features

The CB series is a range of microprocessor control battery chargers able to optimize charging and discharging cycles while ensuring extended battery life. Boost and trickle charging are under micro-processor supervision.

Continuous monitoring of battery efficiency reduces battery damage risk and allows a safe operation also in case of permanent connection.

They are suited for several battery types, Open Lead Acid, Sealed Lead Acid, Lead Gel and Ni-Cd. They are programmed for two charging levels, boost and trickle.

A rugged casing with bracket for DIN rail mounting provide IP20 protection degree.

Charging curve selection

By means of jumpers. Predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd(option) or Single charging level

Type of Signal Output Contact

Maximum current can be switched: 1 A – 30 Vdc.

Installation

The device must be installed according to EN 60950 norm, with a proper isolation switch.

Norms and Certifications

Conforming with:
IEC/EN 60335-2-29 Battery chargers
EN60950 / UL1950 Electrical safety
89/336/EEC EMC Directive
93/68/EEC (Low Voltage)
DIN41773 (Charging cycle)
EN 61000-3-2 (Current harmonics).
EN50082-2 level 3 criteria B (immunity to EMC interference)
EN55011 Class A (Suppression of radio interference for industrial and residential environment)

Input Data

Rated voltage	115 – 230 Vac
Voltage range	93 ÷ 264 Vac
Frequency	47 ÷ 63 Hz
Internal fuse (not replaceable)	Yes

Battery Output

Boost charge (25 °C) (Typ. at In)	14.4 Vdc
Trickle charge (25 °C) (Typ. at In)	13.75 Vdc
Output: Charging current max I _{batt}	6A ± 5%
Setting range of charging current (% In)	20 ÷ 100
Recovery Charge	Yes
Jumper Charging Configuration	Yes
Reverse battery protection	Yes
Detection of element in short circuit	Yes
Minimum Load requirement	No
Efficiency	≥ 81 %
Short-circuit protection)	Yes
Over Load protection	Yes
Over Voltage Output protection	Yes

Signal Output (free switch contact)

Main or Backup Power	No
Low Battery	Yes
Fault Battery	Yes

Climatic Data

Range of ambient working temperature	-10 ÷ +50°C
Range of ambient stocking temperature	-25 ÷ +85°C
Max. relative humidity, without condensation	95% to 25°C

General Data

Insulation voltage (IN/OUT)	3000 V
Insulation voltage (input / ground)	1605 V
Protection degree	IP20
Protection class	I, with PE connected
Dimensions (w-h-d)	45x100x100 mm