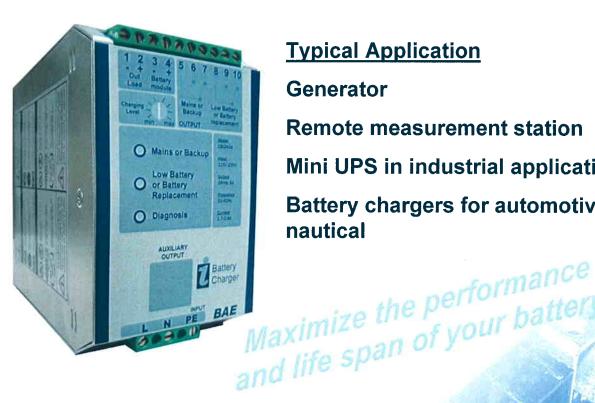
Intelligent Battery Charger



Typical Application

Generator

Remote measurement station

Mini UPS in industrial applications

Battery chargers for automotive and nautical

Features

Nominal input voltage: 115-230 Vac

Output for connection to Battery

Output for connection to Load

Fast and Trickle battery charge in according to DIN 41773

Warning signal: replace battery, low battery, mains or

buffering

Overload and short circuit protections

Safely isolation in according with EN 60950

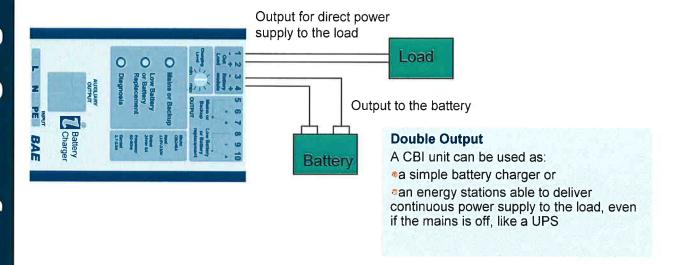
Degree of protection IP20

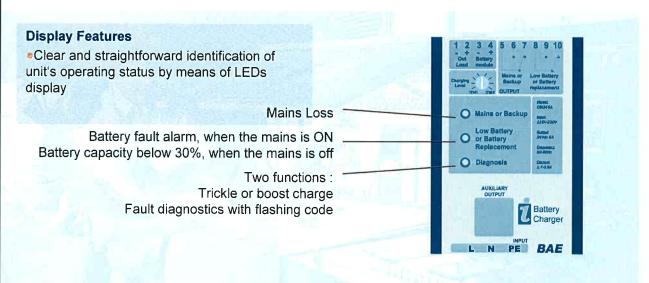
Rail DIN mounting

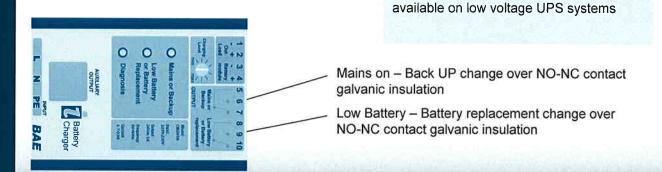
Optional accessories of temperature sensor for Boost (fast) charging, cable voltage drop compensation and remote repetitions of LEDs



Intelligent Battery Charger





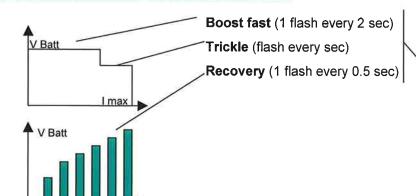


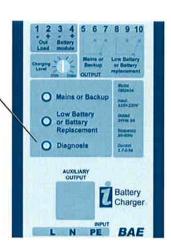
Signal on Voltage-free Contacts

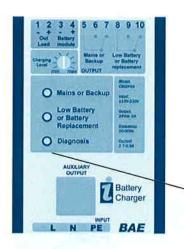
CBI features the contact signals normally

Three Charging modes

Mode switching occurs automatically







Diagnosis of battery status

- •CBI makes installation and maintenance easier.
- A flashing sequence code allows to discriminate among various possible malfunctions.
- 1 flash = Reverse polarity, wrong battery voltage
- 2 flashes = Disconnected battery
- 3 flashes = Battery element in short circuit
- 4 flashes = Overload
- 5 flashes = Battery to be replaced

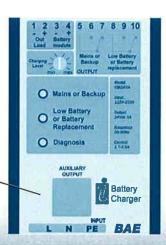
Accessories

•All CBI units can be made available with the following options:

Temperature sensor for Boost (fast) charging

Cable voltage drop compensation

Remote repetition of LEDs





Features Input Data

Nominal Input Voltage (2 x Vac)	110 – 230 Vac
Input voltage range	93 – 264 Vac
Inrush Current (Vn – In)	<= 14 <= 5msec
Frequency	47 – 63 Hz
Input Current (Nominal input Voltage)	1.5 – 0.9 A
Internal Fuse	F4A
External Fuse (recommended)	Fast 6A

Output Data

Output Voltage Battery Bulk Charge / Nominal Current	Max 28.8 Vdc / 5A
Output Voltage Battery Trickle Charge / Nominal Current	Max 27.0 Vdc / 5A
Adjustment range of charge (In adj)	20 – 100% In
Output voltage in Backup mode	27 – 22 Vdc
Type of charging characteristic	U/I
End of charging voltage (Bulk charge)	Max 28.8 Vdc
End of charging current (Bulk charge)	0.3A
Type battery up to	50Ah
Start up with capacity load	<= 30,000 microF
Switching on after applying mains voltage	2.5 sec max
Current Max	1.1 x ln +/- 5%
Residual Ripple	<=60 mVpp
Minimum Load	No
Efficiency	>= 81%
Short Circuit Protection	Yes
Over Load Protection	Yes
Over Voltage Output protection	Yes
Reverse battery protection	Yes

Climate Data

Ambient Temperature (operation)	-10 to 50°C	
Ambient Temperature (storage)	-25 to 85°C	4//
Humidity no moisture condensation	95% a 25°C	. 133

General Data

Isolation Voltage (Input / Output)	3000Vac
Input ground insulation	1605Vac
Electrical safety	EN 60950
Degree of protection	IP 20
Protection class	I with PE connected
Dimension (w-h-d)	65 x 115 x 135
Weight	0.6 kg approx
In according to EMC 89/336/EEC and Low voltage 93/68/EEC	CE

Input:110–230Vac	Input:110–230Vac	Input:110–230Vac	
Output: 12 Vdc	Output: 24 Vdc	Output: 48 Vdc	
•CBI123A	•CBI243A	•CBI482A	
•CBI126A	•CBI245A	•CBI485A	
•CBI1210A	•CBI2410A		
•CBI1215A	•CBI2415A		

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