

THYRISTOR CONTROLLED BATTERY CHARGERS

CRM RANGE



Using thyristor controlled technology, compact and lightweight, the CRM range battery chargers can be associated with any battery technology (recombined sealed lead, open lead, calcium lead, classic lead, nickel cadmium batteries ...).

They insure the charging and maintenance of the batteries and an adequate current for the outputs.

Using robust and reliable thyristor technology, they can be used in numerous applications: marine – offshore – military – railway – industry...

Bureau Veritas certificate of type approval n° 04682 BV



STANDARD RANGE

DESCRIPTION	Item code single phase 230VAC power supply	Item code single phase 400VAC power supply	Output current (A)	Type of case	Weight
24 VDC RANGE					
CRM 24/20	SEEL000542	SEEL000543	20	CFE20	30 kg
CRM 24/25	SEEL000544	SEEL000545	25	CFE20	30 kg
CRM 24/30	SEEL000546	SEEL000547	30	CFE20	40 kg
CRM 24/40	SEEL000548	SEEL000549	40	CFE20	40 kg
CRM 24/50	SEEL000551	SEEL000550	50	CFE50	50 kg
CRM 24/60	SEEL000552	SEEL000553	60	CFE50	50 kg
CRM 24/80	SEEL000554	SEEL000555	80	CFE80	80 kg
CRM 24/100	SEEL000556	SEEL000557	100	CFE80	90 kg
CRM 24/125	SEEL000558	SEEL000559	125	CFE80	100 kg
48 VDC RANGE					
CRM 48/40	SEEL007774	SEEL007775	40	CFE80	80 kg
CRM 48/50	SEEL007776	SEEL007777	50	CFE80	90 kg
CRM 48/60	SEEL007778	SEEL007779	60	CFE80	100 kg
110 VDC RANGE					
CRM 110/10	SEEL006021	SEEL007781	10	CFE80	60 kg
CRM 110/15	SEEL006022	SEEL007782	15	CFE80	80 kg
CRM 110/20	SEEL006023	SEEL007783	20	CFE80	90 kg
CRM 110/25	SEEL006024	SEEL007784	25	CFE100	100 kg
CRM 110/35	SEEL006025	SEEL007785	35	CFE150	120 kg
CRM 110/50	SEEL006026	SEEL007786	50	CFE200	130 kg

CRM – MAIN TECHNICAL SPECIFICATION

INPUT

- 230 Vac or 400 Vac $\pm 10\%$ 576 single phase
- Frequency: 50 to 60 Hz $\pm 5\%$
- Other voltages, frequency: upon request

OUTPUT

- 24 Vdc – floating voltage: 27, 2 Vdc
- 48 Vdc – floating voltage: 54,4 Vdc
- 110 Vdc – floating voltage: 112.5 Vdc
- Other voltages: upon request

TECHNOLOGY

- Rectified, controlled filtered technology
- Filtered direct current (possible operation as power supply)
- Electronic limitation of the output current
- Short-circuit possible without damaging the equipment
- Designed to reduce interferences reinjected to the mains network

OUTPUT ELECTRICAL CHARACTERISTICS

- Regulation: $\pm 1\%$ (steady state)
- Residual ripple: $< 5\%$
- Input / Output galvanic insulation
- Current: see table, others upon request
- Type of charge: I/U type charge, Floating
- Manual charge on 24 Vdc model
- Other charges (Boost, manual clock 0-12H) upon request
- Factory set for lead batteries (consult us for Ni-Cd)

DISPLAY, CONTROL

- "Power on" indicator.
- Voltmeter and ammeter.
- ON/OFF switch.
- Others upon request: Default, emergency stop indicators...

PROTECTION

- Input and output by bipolar fuse
- Against short-circuit and polarity reversal
- Thermal protection
- Tropicalization of the electronic board and the windings
- Equipment designed for resistance to on-board shock and vibration

PRESENTATION

- Metal case – IP 23
- Connection on terminal
- Access through cable glands
- Access from the bottom
- Polyester finish, RAL7035
- Salt atmosphere resistant
- Door with key locking system

CLIMATIC SPECIFICATIONS

- Operating temperature: -10 to 50°C
- Storage temperature: -20 to 70°C
- Humidity: from 0 to 95 % without condensation

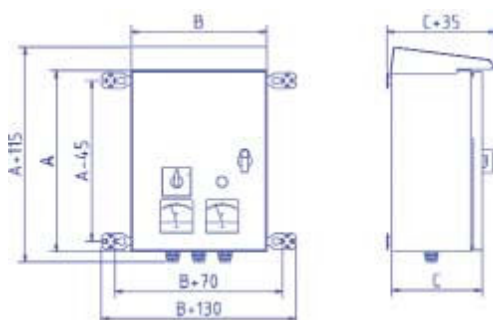
OPTIONS

- Additional outputs.
- Voltage threshold control PCB
- Charge fault PCB.
- Insulation monitor
- Temperature probe for voltage compensation
- Dry contacts.
- For further options, please consult us

STANDARDS

- EC Marking
- Bureau Veritas certified

CRM - MECHANICAL CHARACTERISTICS



TYPE OF CASE	DIMENSIONS IN MM		
	A	B	C
CFE20	400	300	200
CFE50	500	400	250
CFE80	600	600	300
CFE100	600	600	400
CFE150	800	600	400
CFE200	1000	600	400
CFE250	1200	800	400