

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/C0 BV



Standard range

Description	Item code for single phase 230VAC power supply	Item code for 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

Main technical specification

Input :

- 230 Vac or 400 Vac \pm 10% 576 single phase according to model.
- 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 any damage to 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.
- Tropicalisation 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: colour grey RAL7032.
- 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.

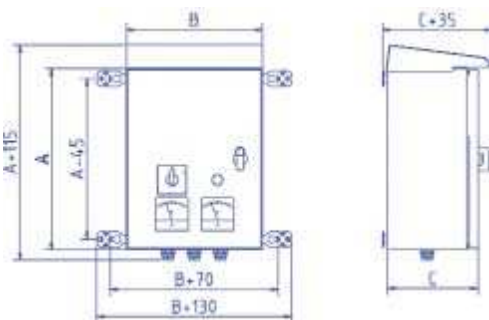
Options :

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

Standards :

- EC Marking.
- Bureau Veritas certified.

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

FC-CRM-EN-D

The information contained in this leaflet is not of a contractual nature. ENAG reserves the right to amend the technical details of its products without advance notice.

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