



battery charger SOLUTIONS

Model CR2F Battery Charger



GENERAL DESCRIPTION

The **Mechron CR2F Battery Charger** is an SCR semi-controlled full wave bridge rectifier designed for **Lead-Acid, Lead-Acid Gel, & Ni-Cad** starting batteries.

The unit features well-proven solid-state controls and a user-friendly front panel display. Primary application is for the charging of engine starting batteries but due to its tight regulation and superior filtering, this charger can be used as a power supply. The standard Automatic Equalize function allows completely unattended operation after initial setup. The Soft Start feature prevents battery damage due to the sudden application of high currents and prolongs charger life through gradual application of loads.



FEATURES

- ▼ Easy to read front panel.
- ▼ Digital voltmeter and ammeter.
- ▼ LED indicators for: AC power, float and equalize, voltage and current limit, soft start, automatic equalize, fault and reverse polarity.
- ▼ Fault monitoring circuit for high and low output voltage, loss of input voltage and high output current.
- ▼ Fault alarm contact (form C).
- ▼ AC circuit breaker.
- ▼ AC surge protection.
- ▼ Remote sensing capability.
- ▼ Automatic equalize after discharge complete with equalize delay to float solid-state timer. Adjustable 0-20 hours
- ▼ Manual initiate, auto termination of equalize timer.
- ▼ Automatic equalize after AC failure.
- ▼ Cancel or inhibit equalize timer.
- ▼ Soft start and reverse polarity protection.
- ▼ Virtually maintenance free.

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SPECIFICATIONS . . .



Input

- ▼ 120 or 240 V, single phase, 60Hz.

Output

- ▼ 12 or 24 VDC.
- ▼ 10, 20, or 30A.

Metering

- ▼ 0.5% accuracy, digital voltmeter and ammeter.

Regulation

- ▼ Better than 0.5% with input line variations of +/-10% and frequency variations of +/- 5%.

Filtering

- ▼ D.C. output ripple less than 5% of output voltage standard.
- ▼ D.C. noise level less than 60 dBm message.

Construction

- ▼ Natural convection cooled enclosures.
- ▼ Standard wall mounting.
- ▼ Finished in standard electrical box grey powder coat with a scratch resistant finish.

Internal Adjustments

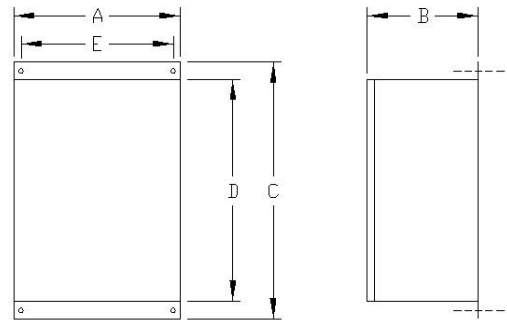
- ▼ 15 turn adjustment potentiometers providing accurate adjustments.
- ▼ Float voltage adjustment 0% to 35% of nominal.
- ▼ Equalize voltage adjustment 0% to 35% of nominal.
- ▼ Voltage factory set.
- ▼ Current limit adjustment 50% to 125% of rating.
- ▼ Voltmeter, zero and span (factory calibrated).
- ▼ Ammeter, zero and span (factory calibrated).

Protection

- ▼ A.C. input circuit breaker.
- ▼ A.C. surge protection.
- ▼ Soft start control.
- ▼ D.C. output fuse for 10A chargers.
- ▼ D.C. output breaker for 20A & 30A chargers.
- ▼ Automatic current limiting feature.

Typical Dimensions										
Rating	A		B		C		D		E	
	IN	CM	IN	CM	IN	CM	IN	CM	IN	CM
10A	12	30.5	8	20.3	18.5	47	16	40.6	11	27.9
20A, 30A	17	43.2	8	20.3	24	61	21	53.3	16	40.6

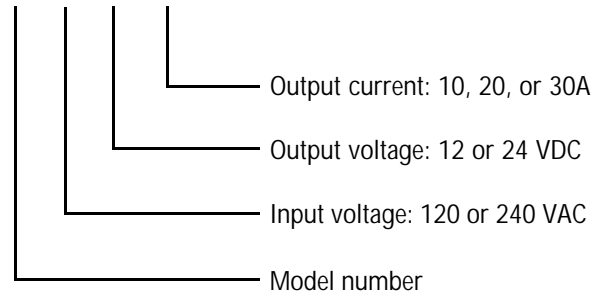
Approximate Weight				
Rating	12V		24V	
	Lbs	Kg	Lbs	Kg
10A	41	19	43	20
20A	53	24	64	29
30A	66	30	81	37



Ordering Information

To order select the basic model and the desired features listed below.

CR2F-120-024-010B



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