

# C-CHARGER®

## Single-Rate Float Battery Chargers

**Utilizing high-quality components and corrosion-resistant stainless steel housings, C-CHARGERS® are built to perform even in the toughest industrial environments.**

Safe to say, there's no other single-rate float charger built like a C-Charger from Charles Industries. Rugged #304 grade stainless steel forms the rugged housing that withstands virtually any environmental effects.

Electrically, the C-Charger is a paragon of efficiency and simplicity. It uses a ferroresonant transformer with integral self-regulation. It has been intelligently designed to be completely devoid of any complicated switching circuits that could possibly burn out. There are no tubes nor delicate electronics to fail or to cause radio frequency interference (RFI.)

Voltage output to the batteries remains at a safe and constant DC level from full load to no load, even if the AC power runs as high as 135 VAC or as low as 100 VAC. This automatic voltage regulation relieves strain on internal electrical components and lengthens the lifespan of the unit. All components are designed to operate safely and continuously in an ambient temperature as high as 122° F.



### Features

- Stainless steel case for corrosion resistance
- Ferroresonant transformer for reliability
- Fully automatic...nothing to adjust or set
- Sealed silicon diodes, full wave, rectifier
- Isolated output - no direct AC to DC connection
- DC ammeter to indicate charge rate
- Combination switch (on/off, pilot light and AC circuit breaker)
- Terminal Board
- Two year limited warranty
- UL Listed

### Optional Accessories

- Charge dividers



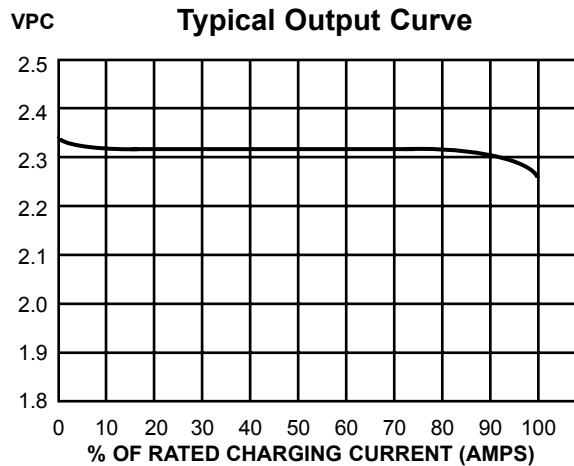
# Specifications

|                              |   |
|------------------------------|---|
| <b>AC Input</b>              | 100-135 volts/60 Hz (220 volts/50 Hz optional)              |
| <b>Operating Temperature</b> | 0° to 50° C (32° to 122° F)                                 |
| <b>Storage Temperature</b>   | -20° to 60° C (-4° to 140° F)                               |
| <b>Relative Humidity</b>     | 0-95%   |
| <b>Cooling</b>               | Convection  |
| <b>DC Output</b>             | 2.27 VPC for lead acid                                      |
| <b>Current Limit</b>         | Approximately 150%  |
| <b>Enclosure</b>             | 304 stainless steel hinged cover to facilitate installation |

| Model Number                                 | D.C. Output |                | Height Inches | Width Inches | Depth Inches | Approx. Weight |
|--|-------------|----------------|---------------|--------------|--------------|----------------|
|  | Amps        | System Voltage |               |              |              |                |
| <b>12 Volt</b>                               |             |                |               |              |              |                |
| CI1205C*                                     | 5           | 12             | 9.5           | 7.5          | 5            | 9              |
| CI1210C                                      | 10          | 12             | 9.5           | 7.5          | 6.25         | 13             |
| CI1215A                                      | 15          | 12             | 9.5           | 7.5          | 6.25         | 15             |
| CI1220C                                      | 20          | 12             | 9.5           | 7.5          | 6.25         | 17             |
| CI1230C                                      | 30          | 12             | 11.5          | 9            | 8.75         | 20             |
| CI1240C                                      | 40          | 12             | 11.5          | 9            | 8.75         | 30             |
| CI1260C**                                    | 60          | 12             | 13            | 11.5         | 10.25        | 38             |
| <b>24 Volt</b>                               |             |                |               |              |              |                |
| CI2405C*                                     | 5           | 24             | 9.5           | 7.5          | 5            | 12             |
| CI2410C                                      | 10          | 24             | 9.5           | 7.5          | 6.25         | 17             |
| CI2420C                                      | 20          | 24             | 11.5          | 9            | 8.75         | 30             |
| CI2430C**                                    | 30          | 24             | 13            | 11.5         | 10.25        | 38             |
| CI2440C**                                    | 40          | 24             | 13            | 11.5         | 10.25        | 46             |
| <b>32 Volt</b>                               |             |                |               |              |              |                |
| CI3205C*                                     | 5           | 32             | 9.5           | 7.5          | 5            | 15             |
| CI3220C**                                    | 20          | 32             | 13            | 11.5         | 10.25        | 38             |
| CI3230C**                                    | 30          | 32             | 13            | 11.5         | 10.25        | 46             |
| CI3240C**                                    | 40          | 32             | 13            | 11.5         | 10.25        | 60             |
| <i>Consult factory for additional models</i> |             |                |               |              |              |                |

\*DC Ammeter Only

\*\*Switch Optional



## Ordering Information

When ordering, please specify:

1. Model number
2. AC input: voltage & frequency
3. Battery type and number of cells
4. Ampere-hour capacity of battery
5. Recharge time desired
6. Description of load
7. Options

**Contact your Charles sales representative for specific product information.**



## Technical Support

- Field-proven and unequalled 24-hour technical support
- Individualized application consultation
- Training courses available

Visit our website at <http://www.charlesindustries.com>



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