

# C-CHARGER®

## Engine Generator Set 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 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 AC power runs as high as 132 VAC or as low as 108 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

- DC ammeter and voltmeter
- Float/equalize switch
- Equalize light
- AC circuit breaker
- Terminal board
- Cannot discharge battery during AC failure
- Stainless steel for corrosion resistance
- Ferroresonant transformer for reliability
- Sealed silicon diodes
- Isolated output - no direct AC to DC connection
- Two year limited warranty
- UL Listed

### Optional Accessories

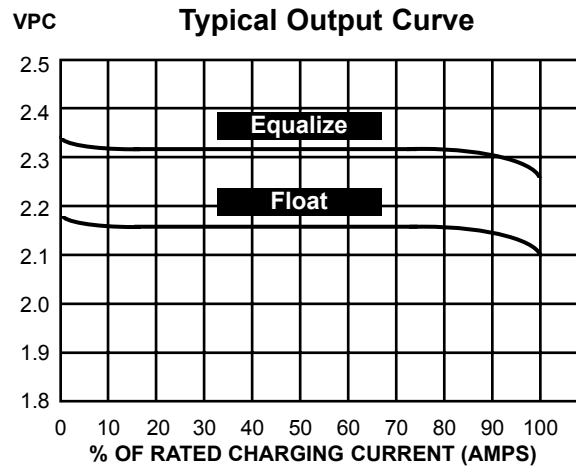
- 0-24 hour equalize timer
- Automatic 24 hour equalize timer
- Low DC voltage alarm relay
- High DC voltage alarm relay
- Current failure relay
- AC power failure relay
- DC cranking disconnect relay
- AC pilot light



# Specifications

<b>AC Input</b>	108-132 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>Cooling</b>	Convection
<b>DC Output</b>	
<b>Float</b>	2.16 VPC for lead Acid, 1.45 VPC for nickel cadmium
<b>Equalize</b>	2.33 VPC for lead Acid, 1.55 VPC for nickel cadmium
<b>Current Limit</b>	Approximately 135%
<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>						
AE1206*	6	12	11	9	8.5	12
AE1210*	10	12	11	9	8.5	14
AE1220*	20	12	11	9	8.5	22
AE1230	30	12	11	9	8.5	26
<b>24 Volt</b>						
AE2406*	6	24	11	9	8.5	14
AE2410*	10	24	11	9	8.5	22
AE2420*	20	24	16.5	15	8.5	38
AE2430	30	24	16.5	15	8.5	55
AE2440	40	24	16	17	14.5	74
<b>32 Volt</b>						
AE3206	6	32	11	9	8.5	22
AE3210	10	32	11	9	8.5	26
AE3220	20	32	16.5	15	8.5	50
AE3330	30	32	16	17	14.5	74



\*UL Listed

# 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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