



## THREE PHASE **AUTOMATIC** BATTERY CHARGERS

For charging standby and on-line batteries

The ABC Series of float chargers are completely solid state, automatic, and of the constant voltage type having

- AC voltage compensation
- DC voltage regulation
- Full current limit
- Filtered DC output (ABC12)

Two rate charging is standard. A control switch allows selection of float-automatic, or high-rate charge. With optional Auto-Charge, in the automatic mode, the charger will high rate charge the battery whenever discharged. The charger will raise the voltage to the high-rate setting and maintain this level for a timed interval. Recharge of the battery is accomplished without excessive over or under charging.

The ABC Series chargers are fully current limited. If current demands exceed the chargers rating, the output voltage drops rapidly, protecting the charger and the system to which it is connected. The chargers' circuit breakers will not trip during such overload conditions.

## STANDARD **FEATURES**

- Conservative component selection and design
- LEDs for AC-ON and high-rate charge
- AC and DC surge protection
- Float / high-rate control switch
- DC voltmeter & ammeter 2%
- Precise voltage regulation
- Fully current limited
- AC input and DC output circuit breakers
- Reverse battery protection
- Natural convection cooling
- Modular construction

PART NUMBER

**ABC31120050005**

TYPE ABC31

208 VAC, 3Ø input  
130 VDC, 50 Amp output

## OPTIONS

- Extra filter (Use ABC12)
- Battery temperature compensation
- AC failure alarm relay
- Multi-alarm monitor includes four alarms & LEDs with common relay high DC volts, low DC volts, rectifier failure and ground fault
- Auto-charge control or manual timers
- Audible alarm
- Drip shields

## SPECIFICATIONS

Input	Voltage: 208 VAC Phase: Three Frequency: 50 or 60 Hertz Current: 29 Amps Max.
Output	Voltage: 120 VDC Nominal (125 VDC) Current: 30 Amps Regulation: +/- 1/2% from no load to full load, with +/- 10% AC line variation
Environmental Operating Temperature Maximum Humidity Maximum Altitude	From +14°F (-10°C) to +122°F (+50°C) 95% 4,100 Feet (1250 M) above sea level
Adjustment	Internal potentiometers for float, high-rate, and current limit
Protection	AC input circuit breaker (3 pole) DC output circuit breaker (2 pole) Automatic current limiting AC surge suppressor Slow start circuitry Reverse battery protection
Ventilation	Natural convection cooling
Cabinets	ANSI #61 light gray powder coat 14/18 gauge steel Floor mounting (G1 cabinet)
Standard Controls	Float/high-rate switch for manual control
Standard Displays AC-ON LED	High-rate charge LED DC voltmeter and ammeter -2% accuracy
Weight & Dimensions (HxWxD)	425 lbs. 40" x 33" x 19"



15272 Newsboy Circle  
Huntington Beach, CA USA

American Battery Charging  
714.477.1599  
[www.abc-chargers.com](http://www.abc-chargers.com)