



## Single-phase Automatic Battery Chargers

### Types ABC11 & ABC12

For charging standby & on-line batteries  
ABC12 chargers have filtered outputs  
to 100mv (30mv optional)

### **GENERAL DESCRIPTION**

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 it is 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 exceeds the chargers rating, the output voltage drops rapidly, protecting the charger and the system to which it is connected. The chargers fuses or breakers will not trip during such overload conditions.

### **STANDARD FEATURES**

Conservative component selection and design assures long life  
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 fuses  
Reverse battery protection  
Natural convection cooling  
Modular construction



### **OPTIONS**

AC and DC 2-pole breakers  
Precision metering  
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.  
Separate alarm relays may be specified.  
Auto-Charge Control or manual timers  
Audible alarm  
Drip Shields  
CE compliance and marking  
Many other accessories available

# SPECIFICATIONS

## INPUT

Voltage: 120, 208, 220, 240, 480 or other  
 Phase: Single  
 Frequency: 50 or 60 Hertz

## OUTPUT

Voltage: 12, 24, 32, 48, 120, 240 or other nom.  
 Current: From 3 to 100 amps  
 Regulation: +/- 1/2% from no load to full load,  
 with +/- 10% AC line variation  
 ABC12 types have filtering to 100mv RMS with  
 4X battery connected

## OPERATING TEMPERATURE

From +14°F (-10°C) to +122°F (+50°C)

## ADJUSTMENTS

Internal potentiometers for float, high rate and  
 current limit

## PROTECTION

AC input fuse or optional breaker  
 DC output fuse or optional breaker  
 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 guage steel  
 Wall or floor mounting

## STANDARD CONTROLS

Float/high rate switch for manual control

## STANDARD DISPLAYS

AC-ON LED  
 High rate charge LED  
 DC voltmeter and ammeter -2% accuracy

# MODELS

## W/STANDARD FILTER

	OUTPUT		CASE		WT
	VOLTS	AMPS	SIZE	LBS	
ABC11	-12	-3	W2	24	
ABC11	-12	-6	W2	28	
ABC11	-12	-10	W2	33	
ABC11	-12	-15	W2	50	
ABC11	-12	-20	W2	60	
ABC11	-12	-25	W2	65	
ABC11	-12	-30	W2	75	
ABC11	-12	-40	W2	90	
ABC11	-12	-50	W3	100	
ABC11	-24	-3	W2	28	
ABC11	-24	-6	W2	34	
ABC11	-24	-10	W2	42	
ABC11	-24	-15	W2	75	
ABC11	-24	-20	W2	85	
ABC11	-24	-25	W2	95	
ABC11	-24	-30	W2	110	
ABC11	-24	-40	W3	125	
ABC11	-24	-50	W3	140	
ABC11	-24	-60	W4	210	
ABC11	-24	-75	W4	250	
ABC11	-24	-100	G1	310	

## W/EXTRA FILTER

	OUTPUT		CASE		WT
	VOLTS	AMPS	SIZE	LBS	
ABC12	-12	-3	W2	40	
ABC12	-12	-6	W2	50	
ABC12	-12	-10	W2	60	
ABC12	-12	-15	W3	80	
ABC12	-12	-20	W3	90	
ABC12	-12	-25	W3	100	
ABC12	-12	-30	W3	110	
ABC12	-12	-40	W3	120	
ABC12	-12	-50	W4	135	
ABC12	-24	-3	W2	50	
ABC12	-24	-6	W2	55	
ABC12	-24	-10	W2	65	
ABC12	-24	-15	W3	90	
ABC12	-24	-20	W3	105	
ABC12	-24	-25	W3	115	
ABC12	-24	-30	W3	140	
ABC12	-24	-40	W4	160	
ABC12	-24	-50	W4	180	
ABC12	-24	-60	W4	250	
ABC12	-24	-75	G1	320	
ABC12	-24	-100	G1	360	

ABC11	-32	-3	W2	30	
ABC11	-32	-6	W2	45	
ABC11	-32	-10	W2	70	
ABC11	-32	-15	W2	80	
ABC11	-32	-20	W2	95	
ABC11	-32	-25	W2	110	
ABC12	-32	-3	W2	50	
ABC12	-32	-6	W2	60	
ABC12	-32	-10	W3	85	
ABC12	-32	-15	W3	100	
ABC12	-32	-20	W3	120	
ABC12	-32	-25	W3	140	

ABC11	-48	-3	W2	32	
ABC11	-48	-6	W2	45	
ABC11	-48	-10	W2	75	
ABC11	-48	-15	W2	90	
ABC11	-48	-20	W2	105	
ABC11	-48	-25	W2	120	
ABC11	-48	-30	W3	135	
ABC11	-48	-40	W3	150	
ABC11	-48	-50	W4	170	
ABC11	-48	-75	G1	320	
ABC11	-48	-100	G1	360	
ABC12	-48	-3	W2	50	
ABC12	-48	-6	W2	60	
ABC12	-48	-10	W3	95	
ABC12	-48	-15	W3	115	
ABC12	-48	-20	W3	135	
ABC12	-48	-25	W3	150	
ABC12	-48	-30	W4	200	
ABC12	-48	-40	W4	230	
ABC12	-48	-50	W4	280	
ABC12	-48	-75	G1	380	
ABC12	-48	-100	G1	420	

ABC11	-120	-3	W2	60	
ABC11	-120	-6	W2	75	
ABC11	-120	-10	W2	95	
ABC11	-120	-15	W3	160	
ABC11	-120	-20	W3	185	
ABC11	-120	-25	W3	205	
ABC11	-120	-30	G1	225	
ABC11	-120	-35	G1	285	
ABC11	-120	-40	G1	325	
ABC11	-120	-50	G1	355	
ABC11	-120	-60	G1	480	
ABC11	-120	-75	G1	570	
ABC11	-120	-100	G2	610	
ABC12	-120	-3	W3	85	
ABC12	-120	-6	W3	100	
ABC12	-120	-10	W3	125	
ABC12	-120	-15	W4	200	
ABC12	-120	-20	W4	235	
ABC12	-120	-25	W4	285	
ABC12	-120	-30	G1	305	
ABC12	-120	-35	G1	365	
ABC12	-120	-40	G1	405	
ABC12	-120	-50	G1	445	
ABC12	-120	-60	G1	570	
ABC12	-120	-75	G2	670	
ABC12	-120	-100	G2	710	

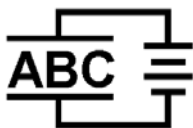
ABC11	-240	-3	W2	85	
ABC11	-240	-6	W2	110	
ABC11	-240	-10	W3	195	
ABC11	-240	-15	W4	285	
ABC11	-240	-20	G1	330	
ABC11	-240	-25	G1	360	
ABC12	-240	-3	W3	105	
ABC12	-240	-6	W3	140	
ABC12	-240	-10	W4	240	
ABC12	-240	-15	G1	370	
ABC12	-240	-20	G1	425	
ABC12	-240	-25	G1	550	

# DIMENSIONS

All dimensions in inches. Selection of some accessories require larger cabinets.

CASE SIZE	W2	W3	W4	G1	G2
Height	19	28	36	40	53
Width	16	16	16	33	33
Depth	12	14	16	19	24

(Specifications subject to change without notice.)



**AMERICAN  
 BATTERY  
 CHARGING  
 INC**

28 Maple Avenue, Smithfield, RI 02917  
 Phone: 401-231-5227 Fax: 401-231-6155  
 Website: abc-chargers.com  
 Mail: Sales@abc-chargers.com