



Three-phase Automatic Battery Chargers

Types ABC31 & ABC32

For charging standby & on-line batteries
ABC32 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 (ABC32)
- Three phase AC input

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 input 3-pole breaker
AC and DC surge protection
Float / high rate control switch
DC voltmeter & ammeter 2%
Precise voltage regulation
Fully current limited
AC input breaker and DC output fuse
Reverse battery protection
Natural convection cooling
Modular construction



OPTIONS

DC 2-pole breaker instead of fuse
Precision metering
Extra filter (Use ABC32)
Battery temperature compensation
AC failure alarm relay
Multi-Alarm Monitor includes four alarms & LEDs with common relay for High DC volts, Low DC volts, Rectifier failure and Ground fault.
Separate alarm relays may be specified.
Precision metering
Auto-Charge Control or manual timers
Audible alarm
Drip Shields
CE compliance and marking
Many other accessories available

SPECIFICATIONS

INPUT

Voltage: 208, 240, 380, 480 or other
 Phase: Three
 Frequency: 50 or 60 Hertz

OUTPUT

Voltage: 24, 32, 48, 120, 240 or other nom.
 Current: From 15 to 600 amps
 Regulation: +/- 1/2% from no load to full load,
 with +/- 10% AC line variation
 ABC32 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 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 paint
 Nema 1 type
 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

(Specifications subject to change without notice.)

MODELS

W/STANDARD FILTER

OUTPUT CASE WT
 VOLTS AMPS SIZE LBS

ABC31	-24	-50	W3	150
ABC31	-24	-75	G1	250
ABC31	-24	-100	G1	325
ABC31	-24	-125	G1	375
ABC31	-24	-150	G1	425
ABC31	-24	-200	G1	480
ABC31	-24	-250	G2	525
ABC31	-24	-300	G2	655
ABC31	-24	-400	G2	700
ABC31	-24	-500	G3	775
ABC31	-24	-600	G3	825

ABC31	-48	-50	G1	200
ABC31	-48	-75	G1	290
ABC31	-48	-100	G1	400
ABC31	-48	-125	G1	440
ABC31	-48	-150	G1	475
ABC31	-48	-200	G2	575
ABC31	-48	-250	G2	675
ABC31	-48	-300	G2	775
ABC31	-48	-400	G3	850
ABC31	-48	-500	G2D	1200
ABC31	-48	-600	G2D	1350

ABC31	-120	-25	G1	240
ABC31	-120	-35	G1	300
ABC31	-120	-50	G1	425
ABC31	-120	-75	G1	475
ABC31	-120	-100	G2	600
ABC31	-120	-125	G2	675
ABC31	-120	-150	G2	830
ABC31	-120	-200	G3	1000
ABC31	-120	-250	G3	1250
ABC31	-120	-300	G2D	1350
ABC31	-120	-400	G2D	1450
ABC31	-120	-500	G2D	1600
ABC31	-120	-600	G2D	1700

ABC31	-240	-15	G1	290
ABC31	-240	-25	G1	425
ABC31	-240	-35	G1	475
ABC31	-240	-50	G1	500
ABC31	-240	-75	G2	800
ABC31	-240	-100	G2	875
ABC31	-240	-150	G3	1350
ABC31	-240	-200	G3	1450
ABC31	-240	-250	G2D	1675
ABC31	-240	-300	G2D	1700

W/EXTRA FILTER

OUTPUT CASE WT
 VOLTS AMPS SIZE LBS

ABC32	-24	-50	G1	170
ABC32	-24	-75	G1	275
ABC32	-24	-100	G1	370
ABC32	-24	-125	G1	425
ABC32	-24	-150	G1	475
ABC32	-24	-200	G2	550
ABC32	-24	-250	G2	600
ABC32	-24	-300	G2	700
ABC32	-24	-400	G3	780
ABC32	-24	-500	G3	850
ABC32	-24	-600	G3	925

ABC32	-48	-50	G1	260
ABC32	-48	-75	G1	350
ABC32	-48	-100	G1	460
ABC32	-48	-125	G2	500
ABC32	-48	-150	G2	550
ABC32	-48	-200	G2	650
ABC32	-48	-250	G3	750
ABC32	-48	-300	G3	860
ABC32	-48	-400	G3	950
ABC32	-48	-500	G2D	1350
ABC32	-48	-600	G2D	1500

ABC32	-120	-25	G1	300
ABC32	-120	-35	G1	360
ABC32	-120	-50	G1	500
ABC32	-120	-75	G2	550
ABC32	-120	-100	G2	680
ABC32	-120	-125	G2	750
ABC32	-120	-150	G2	910
ABC32	-120	-200	G3	1100
ABC32	-120	-250	G2D	1400
ABC32	-120	-300	G2D	1500
ABC32	-120	-400	G2D	1650
ABC32	-120	-500	G2D	1820
ABC32	-120	-600	G3D	1950

ABC32	-240	-15	G1	350
ABC32	-240	-25	G1	510
ABC32	-240	-35	G1	560
ABC32	-240	-50	G2	590
ABC32	-240	-75	G2	890
ABC32	-240	-100	G3	1000
ABC32	-240	-150	G3	1480
ABC32	-240	-200	G2D	1610
ABC32	-240	-250	G2D	1800
ABC32	-240	-300	G3D	1950

DIMENSIONS

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

CASE SIZE	W3	G1	G2	G3	G2D	G3D
Height	28	40	53	74	53	74
Width	16	33	33	33	62	62
Depth	14	19	24	24	24	24



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