**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

<table>
<thead>
<tr>
<th>VTLS</th>
<th>AMPS</th>
<th>CASE</th>
<th>WT</th>
<th>SIZE</th>
<th>LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC11</td>
<td>-3</td>
<td>W2</td>
<td>24</td>
<td>ABC12</td>
<td>-3</td>
</tr>
<tr>
<td>ABC11</td>
<td>-6</td>
<td>W2</td>
<td>28</td>
<td>ABC12</td>
<td>-6</td>
</tr>
<tr>
<td>ABC11</td>
<td>-10</td>
<td>W2</td>
<td>33</td>
<td>ABC12</td>
<td>-10</td>
</tr>
<tr>
<td>ABC11</td>
<td>-15</td>
<td>W2</td>
<td>50</td>
<td>ABC12</td>
<td>-15</td>
</tr>
<tr>
<td>ABC11</td>
<td>-20</td>
<td>W2</td>
<td>65</td>
<td>ABC12</td>
<td>-20</td>
</tr>
<tr>
<td>ABC11</td>
<td>-25</td>
<td>W2</td>
<td>75</td>
<td>ABC12</td>
<td>-25</td>
</tr>
<tr>
<td>ABC11</td>
<td>-30</td>
<td>W2</td>
<td>90</td>
<td>ABC12</td>
<td>-30</td>
</tr>
<tr>
<td>ABC11</td>
<td>-35</td>
<td>W3</td>
<td>100</td>
<td>ABC12</td>
<td>-35</td>
</tr>
</tbody>
</table>

### W/EXTRA FILTER

<table>
<thead>
<tr>
<th>VTLS</th>
<th>AMPS</th>
<th>CASE</th>
<th>WT</th>
<th>SIZE</th>
<th>LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC11</td>
<td>-3</td>
<td>W2</td>
<td>28</td>
<td>ABC12</td>
<td>-3</td>
</tr>
<tr>
<td>ABC11</td>
<td>-6</td>
<td>W2</td>
<td>34</td>
<td>ABC12</td>
<td>-6</td>
</tr>
<tr>
<td>ABC11</td>
<td>-10</td>
<td>W2</td>
<td>42</td>
<td>ABC12</td>
<td>-10</td>
</tr>
<tr>
<td>ABC11</td>
<td>-15</td>
<td>W2</td>
<td>65</td>
<td>ABC12</td>
<td>-15</td>
</tr>
<tr>
<td>ABC11</td>
<td>-20</td>
<td>W2</td>
<td>85</td>
<td>ABC12</td>
<td>-20</td>
</tr>
<tr>
<td>ABC11</td>
<td>-25</td>
<td>W2</td>
<td>95</td>
<td>ABC12</td>
<td>-25</td>
</tr>
<tr>
<td>ABC11</td>
<td>-30</td>
<td>W2</td>
<td>110</td>
<td>ABC12</td>
<td>-30</td>
</tr>
<tr>
<td>ABC11</td>
<td>-35</td>
<td>W3</td>
<td>140</td>
<td>ABC12</td>
<td>-35</td>
</tr>
</tbody>
</table>

### DIMENSIONS

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

<table>
<thead>
<tr>
<th>CASE SIZE</th>
<th>W2</th>
<th>W3</th>
<th>W4</th>
<th>G1</th>
<th>G2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>19</td>
<td>28</td>
<td>36</td>
<td>40</td>
<td>53</td>
</tr>
<tr>
<td>Width</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Depth</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>19</td>
<td>24</td>
</tr>
</tbody>
</table>

(Specifications subject to change without notice.)

---

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