Tideland Signal’s TIBC-10 automatic battery charger maintains the correct charge on secondary storage lead acid and nickel cadmium batteries for 12 and 24-volt nominal battery systems.

The unit has comprehensive self-testing features with an amp meter and indicator lights. All customer-specified factory settings are clearly marked on a label.

General marine use (GMU) and Explosion (Ex) protected versions of the charger use the same panel layout and are configured in the same way. The charger is available unhoused as a panel product for use in user supplied enclosures.

**ALARMS**

- Charger Healthy
- Charger Failed
- DC +Ve Earth Fault Healthy
- DC +Ve Earth Fault Alarm
- DC –Ve Earth Fault Healthy
- DC –Ve Earth Fault Alarm
- System Healthy
- System Fault
- AC Input Healthy
- AC Input Failed
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input voltage</strong></td>
<td>Switchable 90 to 132VAC or 180 to 264VAC (47 to 63Hz) Factory or field pre-set</td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>500W maximum</td>
</tr>
<tr>
<td><strong>Output range</strong></td>
<td>10 to 29V Factory or field preset</td>
</tr>
<tr>
<td><strong>Charge current</strong></td>
<td>0 to 10A Factory or field preset</td>
</tr>
<tr>
<td><strong>Input protection</strong></td>
<td>10 Amp input circuit breaker (push to reset) Internal safety backup fuse (not field replaceable)</td>
</tr>
<tr>
<td><strong>Output protection</strong></td>
<td>Constant current limiting with automatic recovery Internal diode for reverse battery (with 15 Amp, 32 Vdc ATO fuse)</td>
</tr>
<tr>
<td><strong>Ambient Operating Temperature</strong></td>
<td>−20°C to 55°C Enclosed versions −20°C to 70°C Panel version</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>−40°C to 85°C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>100% RH Condensing, Enclosed versions 20 to 90% RH, Non-condensing, Panel version</td>
</tr>
<tr>
<td><strong>Over Temperature Protected</strong></td>
<td>Self resetting with hysteresis Cooling fan set to run at 60°C</td>
</tr>
<tr>
<td><strong>Battery Types</strong></td>
<td>Flooded Lead Acid, Sealed AGM Lead acid, Gelled Lead Acid, and Nickel Cadmium</td>
</tr>
<tr>
<td><strong>Terminal Block Wire Size Range</strong></td>
<td>AC Mains and Battery Terminal Blocks 0.2mm² to 6mm² (24 to 10AWG) All Other Terminal Blocks 0.08mm² to 4mm² (28 to 12AWG)</td>
</tr>
<tr>
<td><strong>Enclosure</strong></td>
<td>Tideland GMU Version Stainless steel enclosure with pre-drilled gland holes Shipped with 2x 20 mm and 2x 25 mm glands IP-67</td>
</tr>
<tr>
<td><strong>Expansion Protected Version</strong></td>
<td>Class I, Div. 1 &amp; 2, Groups B1, C, D Class I, Zones 1 &amp; 2, Groups IIB+H2, IIA Class II, Div. 1 &amp; 2, Groups E, F, G Class III, Div. 1 &amp; 2 NEMA 3, 4, 4X2, 7(B, C, D), 9(E, F, G ) CENELEC/ATEX/IEC Ex Ex d IIB + H2 T5 or T6 Ex tD A21 IP66 Ta &lt; +60°C</td>
</tr>
</tbody>
</table>

Note: No cable glands or bushings are provided with explosion protected enclosure. All external wiring must comply with appropriate provisions of local electrical codes.

### Shipping Weight

- **Tideland GMU Version**: 17.3kg (38.1lb)
- **Expansion protected Version**: 26.8kg (59.0lb)

**NOTE**: Specifications are subject to change.

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**TIBC-10**

**THE BATTERY CHARGER OF CHOICE FOR MOST OIL COMPANIES AND PLATFORM OPERATORS DUE TO ITS EXCEPTIONAL PERFORMANCE AND EFFICIENCY**

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