

TIBC-10

BATTERY CHARGER

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 customerspecified 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 unboxed 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



TIBC-10 Charger in GMU housing

TIBC-10

Technical Details

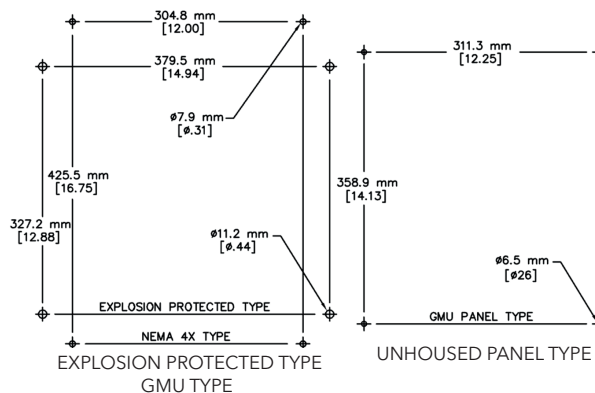
Input Voltage	Switchable 90 to 132VAC or 180 to 264VAC (47 to 63Hz) Factory or field pre-set
Input power	500W maximum
Output range	10 to 29V Factory or field preset
Charge current	0 to 10A Factory or field preset
Input protection	10 Amp input circuit breaker (push to reset) Internal safety backup fuse (not field replaceable)
Output protection	Constant current limiting with automatic recovery Internal diode for reverse battery (with 15 Amp, 32 Vdc ATO fuse)
Ambient Operating Temperature	-20° C to +45° C Enclosed versions -20° C to 70° C Panel version
Storage Temperature	-40° C to 85° C
Humidity	100% RH Condensing, Enclosed versions 20 to 90% RH, Non-condensing, Panel version
Battery Types	Flooded Lead Acid, Sealed AGM Lead acid, Gelled Lead Acid, and Nickel Cadmium
Terminal Block Wire Size Range	
AC Mains and Battery Terminal Blocks	0.2mm ² to 6mm ² (24 to 10AWG)
All Other Terminal Blocks	0.08mm ² to 4mm ² (28 to 12AWG)
Enclosure	
Tideland GMU Version	Stainless steel enclosure with pre-drilled gland holes Shipped with 2x 20 mm and 2x 25 mm glands IP-67
Explosion Protected Version	Class I, Div. 1 & 2, Groups B, C, D Class I, Zones 1 & 2, Groups IIB+H2, IIA Class II, Div. 1 & 2, Groups E, F, G Class III, Div. 1 & 2 NEMA 3, 4, 4X2, 7(B, C, D), 9(E, F, G) ATEX/IECEx Ex d IIB + H2 T5 or T6 Ex tD A21 IP66 -20°C ≥Ta ≤ + 45°C

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)
Explosion protected Versions	26.8kg (59.0lb)

NOTE: Specifications are subject to change.

The Battery Charger of Choice for Most Oil Companies and Platform Operators Due to its Exceptional Performance and Efficiency



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