

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

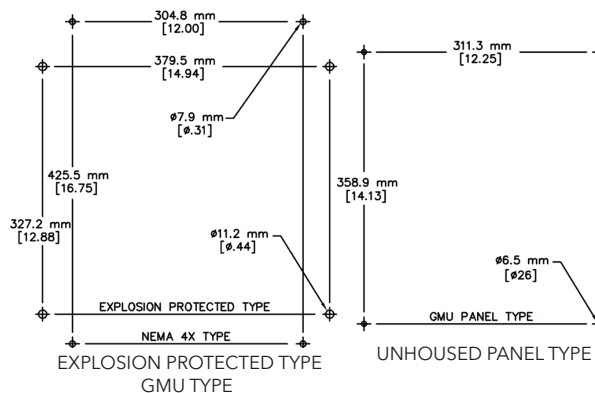
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|---------------------------------------|---|
| Input Voltage | Switchable 90 to 132VAC or 180 to 264VAC (47 to 63Hz) Factory or field pre-set |
| Input power | 500W maximum |
| Output range | 10 to 29V Factory or field preset |
| Charge current | 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.

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|------------------------------|-----------------|
| 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



Tideland Signal Corporation
(USA)
us-sales@tidelandsignal.com

Tideland Signal Ltd
(Canada)
canada-sales@tidelandsignal.com

Tideland Signal Ltd
(Burgess Hill, UK)
emea-sales@tidelandsignal.com

Tideland Signal
(The Netherlands)
emea-sales@tidelandsignal.com

Tideland Signal Ltd
(Dubai, UAE)
emea-sales@tidelandsignal.com

Tideland Signal Pte Ltd
(Singapore)
asia-sales@tidelandsignal.com

Tideland Signal Pte Ltd
(Tianjin, China)
asia-sales@tidelandsignal.com

www.tidelandsignal.com