RESERVE POWER

Eternity TECHNOLOGIES

# QUASAR™ HT Range

## VRLA Ultra Long Life Battery

CNT TECHNOLOGY

# HIGH ENERGY ON DEMAND™

# QUASAR™ HT Range

CNT TECHNOLOGY

The QUASAR 12V HT Battery range is designed to deliver exceptional longevity, especially under high operating temperatures. Available in capacities from 100Ah to 200Ah, this range seamlessly integrates VRLA Gel technology with cutting-edge Carbon Nano Tube (CNT) innovation. Unique catalyst valves address the fundamental deficiencies of traditional long-life VRLA battery designs, providing critical improvements in performance and service life.

## QUASAR HT Battery Construction

### Positive & negative plate

Advanced flat plate technology using lead calcium tin alloy which ensures low self discharge rates and low float currents

### Terminal

Specifically designed leak proof terminals to allow for different connector fixing positions.

### Pressure release valve

The valve is designed to open at a specific pressure to ensure that hydrogen gas can be released safely. Central degassing function available

### Container & Lid

Manufactured from Acrylonitrile-Butadiene-Styrene (ABS) which is durable and offers strong resistance to heat and chemicals. UL94-V0 flame retardant option also available

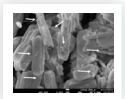
### Electrolyte

Silica-based-gel-form electrolyte that has no water loss and therefore maintenance free

### Separator

High-porosity and corrosion-resistant ensures maximum capacity for the lifetime of the cell

### Carbon Nanotube Technology



Eternity Technologies' patented Carbon Nano Tube solution creates a nanotube network, enabling minimal resistance electron flow, which enhances charge/discharge performance and lowers operating temperatures.

**Resulting in:**

- Enhanced consistency of performance
- Improved charge acceptance
- Increased cycle life
- Partial State of Charge Operations (PSOC)
- Improved Thermal Operational Ranges

### Catalyst Technology

The catalyst valves used in QUASAR HT Range correct the fundamental deficiency of long-life VRLA battery designs and provide critical improvements in performance and service life.

**Resulting in:**

- Reduced Float current saves Energy
- Increases Float Life
- Minimize Water Loss
- Maintain Negative Plate Capacity
- Minimize Positive Plate Corrosion
- Reduce Cell Heating &Thermal Runaway risk

**For I&O&M please visit www.eternitytechnologies.com**

Recyclable

## Features

VRLA Carbon Nano Catalyst design for longer life operation

Wide operating temperature range -40°C to 65°C

Front terminal design for ease of installation and maintenance

Capacity: 100-200Ah

High cycle life

Exceptional Battery life
- 20-year design life at 20°C
- 10-year design life at 35°C
- 24-month storage life at 20°C for maximum flexibility in project deployment

Deep Cycle Resilient

Partial State of Charge (PSOC) compatibility

Central degassing

Low Total Cost of Ownership

## Standards:

EUROBAT 2015 classification: >12 years = very long life

Design compliant with IEC 60896-21 / 22

Underwriters Laboratories (UL) recognised component

Manufactured in Eternity Technologies production facility certified to ISO 9001, ISO 14001 & ISO 45001

Non-spillable battery approved for land, sea and air transportation in accordance with ADR / RID, IMDG & IATA

## Applications:

UPS Systems

Telecommunications

Emergency Lighting

Utility

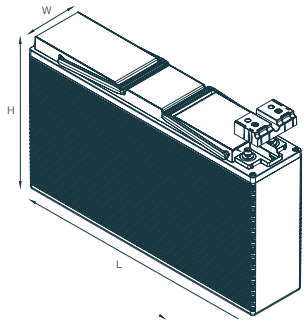
## Specifications

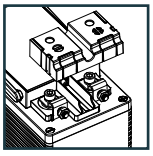
| Type | Voltage | Capacity C10 @25°C | Length (mm / in) | Width (mm/ in) | Height Container (mm/in) | Weight (kg/lbs) | Female Terminal | Front Terminal Adapter | Short Circuit Current (A) | Internal Resistance (Mohm) |
|---|---|---|---|---|---|---|---|---|---|---|
| QSR100HT | 12 | 100 | 396 / 15.59 | 110 / 4.33 | 288 / 11.34 | 35 / 77.16 | M8 | M8 | 1474 | 8.20 |
| QSR155HT | 12 | 155 | 560 / 22.05 | 125 / 4.92 | 288 / 11.34 | 52 / 114.64 | M8 | M8 | 2285 | 5.50 |
| QSR170HT | 12 | 170 | 560 / 22.05 | 125 / 4.92 | 328 / 12.91 | 56.5 / 124.56 | M8 | M8 | 2506 | 4.85 |
| QSR190HT | 12 | 190 | 560 / 22.05 | 125 / 4.92 | 328 / 12.91 | 64.2 / 141.54 | M8 | M8 | 2800 | 4.30 |
| QSR200HT | 12 | 200 | 560 / 22.05 | 125 / 4.92 | 328 / 12.91 | 66.8 / 147.27 | M8 | M8 | 2948 | 4.10 |

**± 5% weight tolerance**

For standard ordering please use part number above.
Please add "A" after part number for product with front terminal adapters e.g. QSR200HTA
Please add "V0" after part number for UL-94 V0 rated flame-retardant plastic material, e.g. QSR200HTV0
Dependant on options required please add the relevant letter after the part number, e.g. QSR200HTV0A

## Outline Drawings

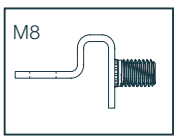


**Front Terminal Adapters**

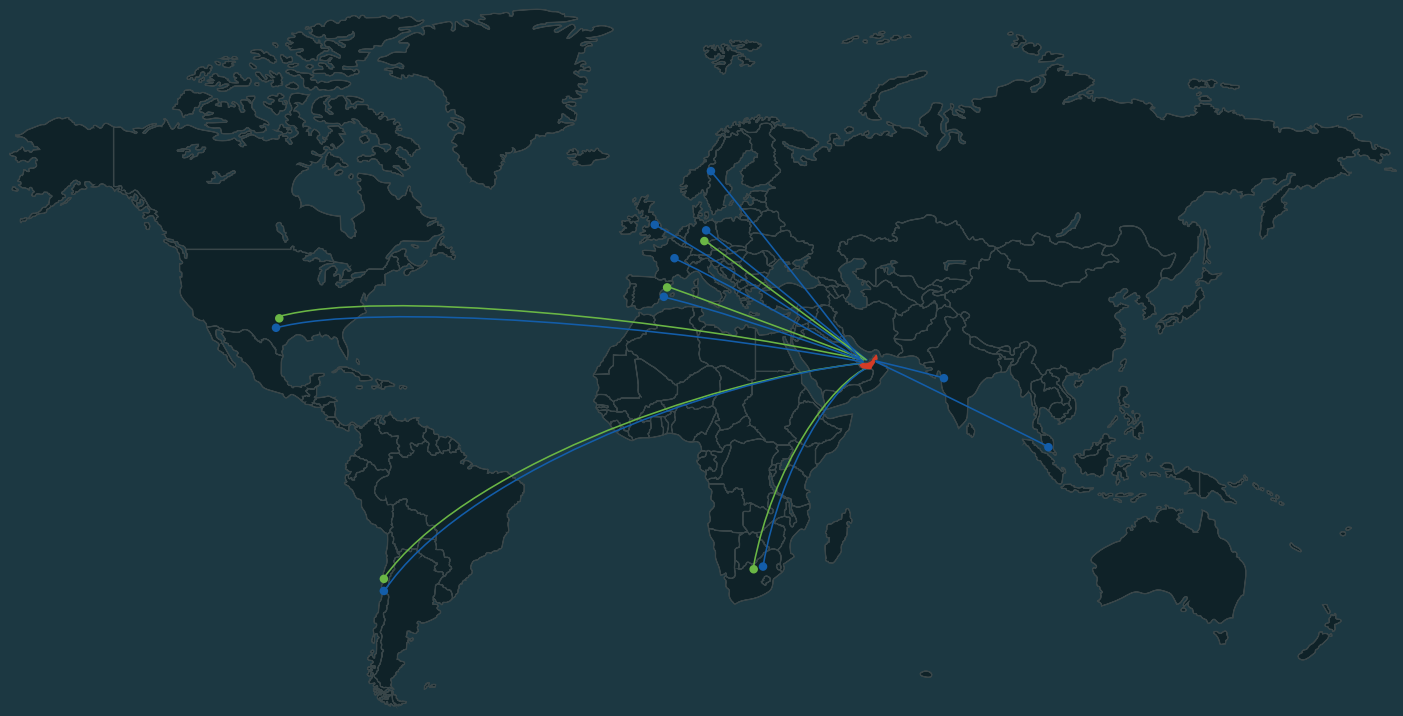
## Terminal Option

**Torque: 8Nm**




**FT Adapter**

# A global leader in the industrial battery market providing world-class products for Motive Power and Reserve Power applications.



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**PRELIMINARY: ET/NP QUASAR HT V1 0723**