The Power Behind Performance
CROWN MARINE BATTERIES

Power. Boat.
Present-Day Marine Equipment Applications Subject Batteries to Brutal Treatment...

- Demanding OEM starting power requirements
- Extreme operating temperatures
- Boat pounding vibration
- High amp accessory loads result in severe “Cycling” of the battery bank – in many cases, deep cycling of batteries that are not designed for cyclic service

What happens to the internal components of the battery during cycling?
Sulfuric acid is absorbed into the plate during the discharge cycle. Battery plates expand as acid transfers to the plate during discharge. Increased discharge levels cause a corresponding expansion of battery plates. Electrical current travels through the plate, to the top lead connectors — and then through the terminal post.

Charging current applied to the battery forces sulfuric acid from the battery plates — transferring the material back to liquid form. Battery plates contract or “shrink” as acid is transferred back to liquid form. Cyclic charging service creates heat within the battery which — over time — accelerates internal degradation of battery plates.

Battery design and internal construction directly affects the battery’s ability to tolerate these operating demands.
The durability and power of Crown batteries start with full frame, SolidCast™ grids that are heavier and thicker to tolerate the demands of marine equipment applications.
Crown’s full frame SolidCast™ grids utilize uniform wire thickness across the grid structure to hold and retain active materials for longer life and better reliability of power.

Compare that to competitors’ use of stamped, thin-wire grids that are overpasted to deliver lower manufacturing costs – but which are prone to shortened life as a result of accelerated plate shedding.
Crown Battery’s modern solid-cast design, with heavier and more efficient current carrying structures delivers more powerful starting and cycling capacity for demanding applications.
Crown’s batteries are manufactured on automated process lines featuring computer-controlled Cast-On Strap welding, assembly and formation charging.
The quality delivered by Crown’s batteries is guaranteed by an ISO-9001 Certified Quality System and is in full conformance with OEM expectations for reliability and performance.

Every detail of our batteries’ design, construction and assembly is delivered according to Crown’s specifications and assures superior performance and reliability.
The manufacturing process for Crown’s batteries includes temperature-controlled oven plate curing of both positive and negative plates – a “Best in Industry” manufacturing process that ensures optimal battery performance and life.
Crown Battery’s Complete Array of Heavy Duty Marine Starter, Dual Purpose and Deep Cycle Batteries

- Built with a **Quality First** Production Process
- Constructed with **State-of-the-Art** Manufacturing
- **No Shortcuts** in Material or Product Integrity
MARINE STARTER BATTERIES

The Power to Perform

What You Want In A Heavy Duty Battery

- **CleanFit™ Maintenance Free Cover**
  The CleanFit™ cover design affords clean, maintenance-free operation, ease of fitment – and a durable recessed handle for safe handling and installation. The cover’s manifold vent can be easily removed and refitted for routine battery inspection.

- **Innovative Terminals**
  Heavy duty marine dual terminals resist corrosion and allow for efficient and safe cable installation.

- **PosiWrap™ Envelope Separators**
  PosiWrap™ separators reduce maintenance and prevent failure due to short-circuiting and plate shedding, ensuring reliability and durability.

- **Tough Connectors**
  Thicker SolidCast™ COS, TTP and Terminal Post connectors for premium performance and reliability.

- **Powerhouse Plate Construction**
  SolidCast™ centerline lug plate design with LifePlus paste for superior performance and longer life.

MAR-800
MAR-500
MAR-600
MAR-1000X
Full-framed thick SolidCast™ grid with more metal and minimal over-pasting provides reliable cold cranking power, resists vibrations and deep discharge – durable, long life.

Heavy duty marine dual terminals resist corrosion and allow for efficient and safe cable installation.

The innovative CleanFit™ cover design affords clean, maintenance-free operation, ease of fitment – and a durable recessed handle for safe handling and installation.

Calcium lead plate content enables maintenance-free reliability with minimal gassing.

Tough polypropylene plastic container and cover components are heat-sealed and withstand rugged applications.

<table>
<thead>
<tr>
<th>BCI Group</th>
<th>Model Description</th>
<th>Item Number</th>
<th>20 Hr Amp Hour</th>
<th>Electrical Capacity</th>
<th>Inches</th>
<th>Millimeters</th>
<th>Product Footnotes</th>
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<td>12.94</td>
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Key:
- **D** = Standard Terminal (Dual Automotive / Stainless Threaded Terminal)
- **H** = CleanFit™ Maintenance Free Cover Design
- **I** = Cover with POD Vent
- **J** = Battery Fitted with Handle or Lifting Lug
- **L** = Antimony Alloy Construction: Low Maintenance Service
- **M** = Calcium Alloy Construction: Maintenance Free Service
- **T** = TightPack Cell Construction

Available with Standard Terminal Style
(BCI Type M Type with Dual SAE / Stainless Threaded Terminals)
MARINE DUAL PURPOSE BATTERIES

The Power to Perform

• **Innovative Terminals**
  Heavy duty marine dual terminals resist corrosion and allow for efficient and safe cable installation.

• **Low Maintenance Pod Vent**
  For periodic evaluation and seasonal maintenance.

• **Tough Connectors**
  Thicker SolidCast™ COS, TTP and Terminal Post connectors for premium performance and reliability.

**Dual Purpose Batteries**
Proprietary “tightpack” design with PosiWrap™ plate construction enables maximum performance and durability in starting and cyclic applications involving 50% depth-of-discharge (DOD) or less. Periodic equalization charges are required in cyclic applications to achieve expected battery life.

**Powerhouse Plate Construction**
SolidCast™ centerline lug plate design with LifePlus paste for superior performance and longer life.
Thick, SolidCast™ grid design with more metal and no overpasting provides highly reliable engine cranking and reserve capacity power, resistance to deep discharge – and superb durability and long life.

Heavy-duty standard terminal posts provide maximum durability and resistance to terminal corrosion.

Calcium lead plate content enables maintenance-free reliability with minimal gassing.

Tightpack cell design with PosiWrap™ separators protect against short-circuiting and provide superior plate compression to deliver stronger cycling performance.

Tough polypropylene plastic container and cover components are heat-sealed and withstand rugged applications.
The Power to Perform

- **Innovative Terminals**
  Heavy duty marine dual terminals resist corrosion and allow for efficient and safe cable installation.

- **Low Maintenance Pod Vent**
  For periodic evaluation and seasonal maintenance.

- **Tough Connectors**
  Thicker SolidCast™ COS, TTP and Terminal Post connectors for premium performance and reliability.

**Deep Cycle Batteries**

Proprietary “tightpack” design with PosiWrap™ plate construction enables maximum performance and durability in starting and cyclic applications subjecting batteries to full discharge (10.5 Volts). Periodic equalization charges are required in cyclic applications to achieve expected battery life.

**Powerhouse Plate Construction**

Thick, full-frame SolidCast™ grid with Antimony lead and a centerline lug plate design for superior performance and longevity.
Thick, SolidCast™ grid design with more metal and no overpasting provides highly reliable discharge power, exceptional cycle life – and resistance to vibration and extreme temperatures.

Heavy-duty standard terminal posts provide maximum durability and resistance to terminal corrosion.

Antimony lead plate content enables low-maintenance reliability with superb durability.

Tightpack cell design with PosiWrap™ separators protect against short-circuiting and provide superior plate compression to deliver stronger cycling performance.

Tough polypropylene plastic container and cover components are heat-sealed and withstand rugged applications.

### 12 VOLT MARINE DEEP CYCLE BATTERIES

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- **T** = TightPack Cell Construction
- **H** = CleanFit™ Maintenance Free Cover Design
- **I** = Cover with POD Vent

### Standard Type

Available with Standard Terminal Style

(BCI Type M Type with Dual SAE / Stainless Threaded Terminals)
Why Crown? Crown Batteries are the heavyweight in marine applications. Batteries with more active lead material delivering the power to not only take you out...but bring you back...with power to spare.

Need Proof of Performance: In head-to-head tests, Crown delivered more power, more choices, a better fit with more safety features than leading competitors. Truly, the best value is Crown.