

# T2 Technology™



**Trojan**<sup>®</sup>  
BATTERY COMPANY

*Clean energy for life™*

# Classic Trojan... Intelligently Refined

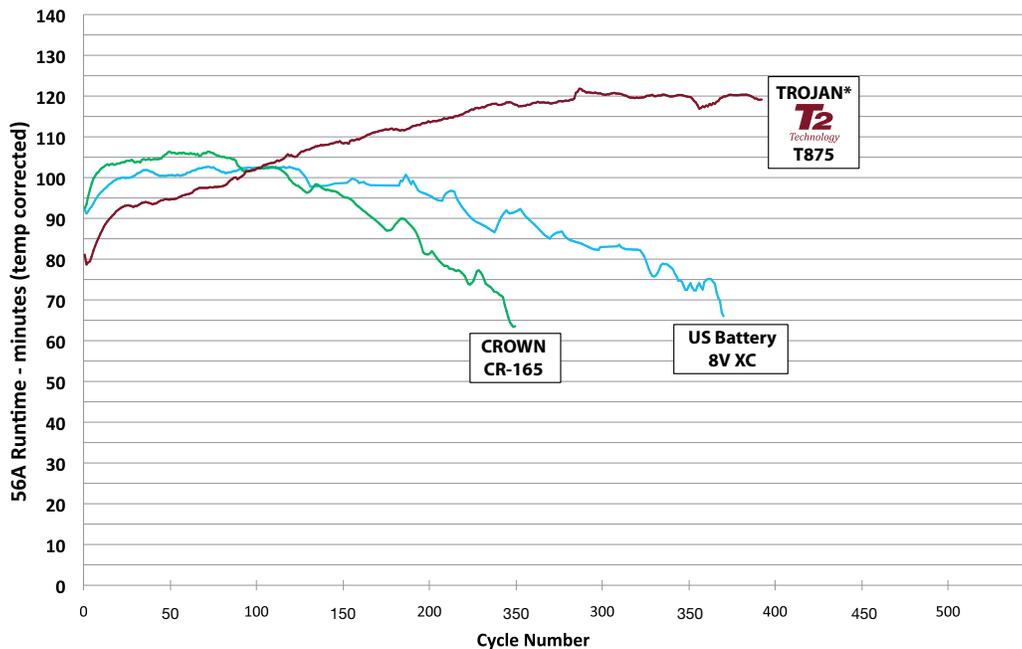


## INTRODUCING... **T<sub>2</sub>** Technology™

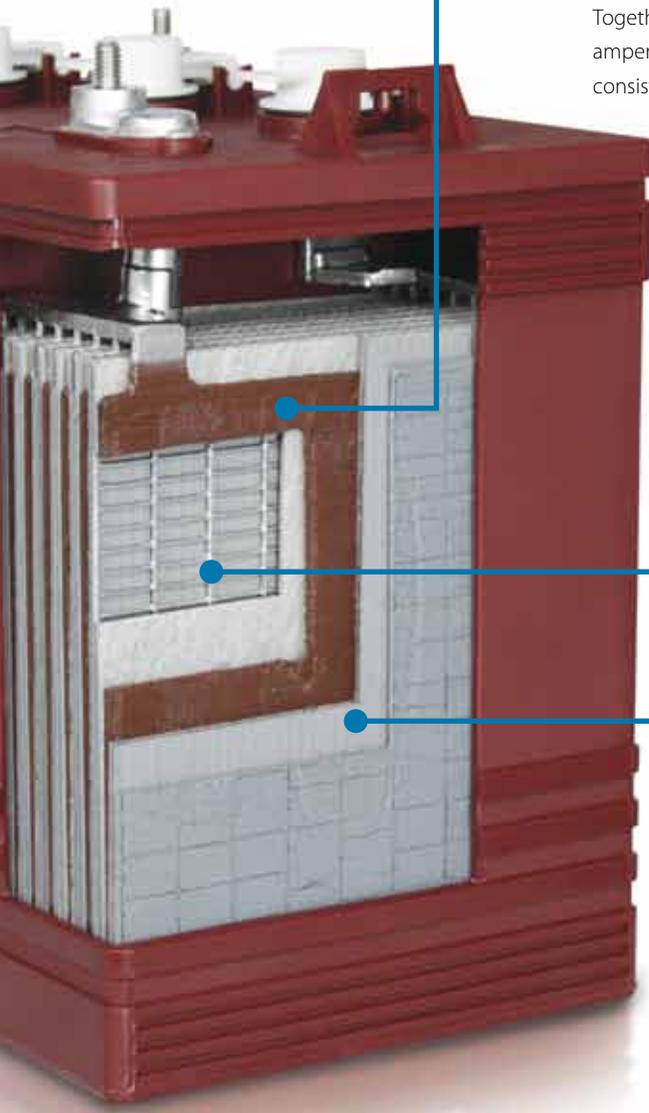
Every once in a while a classic design inspires new ideas. Our inspiration - a classically outstanding battery intelligently refined for exceptional battery performance. Introducing **T<sub>2</sub> Technology** - Trojan's next generation of deep cycle battery advancement. Golf car, wind turbine, solar systems, floor machine, whatever the deep cycle battery application - manufacturers are improving their products with new technological advancements. Energy needs for these products are also evolving requiring even greater battery performance. Engineered specifically to meet these increasing demands, Trojan's **T<sub>2</sub> Technology** builds upon our historically-proven technology and incorporates improvements resulting in a superior battery with maximum sustained performance, longer life and increased total energy.

### Trojan vs. Competition\*

#### 8V DEEP-CYCLE BATTERY CYCLE LIFE TEST



\* As tested in Trojan's R&D centers and in accordance with BCI test procedures. Preliminary results - testing ongoing



### Alpha Plus® Paste with **T2 Technology™**

#### Maximum Operating Performance

Trojan's Alpha Plus® Paste is a proprietary, high density paste formulation precisely engineered to deliver outstanding battery performance. This high density paste optimizes porosity development in the active material utilizing the active material more effectively resulting in sustained battery performance over a longer period of time. Trojan's **T2 Technology** introduces a patent-pending **T2** metal agent into Alpha Plus Paste further strengthening the electrochemical processing capabilities of Trojan's Alpha Plus Paste. Together Alpha Plus Paste with **T2 Technology** increases both sustained capacity and total overall ampere-hours resulting in more operating power for your application. It's a key reason why Trojan batteries consistently outperform the competition.

### Trojan Grid Technology

#### Reduced Downtime

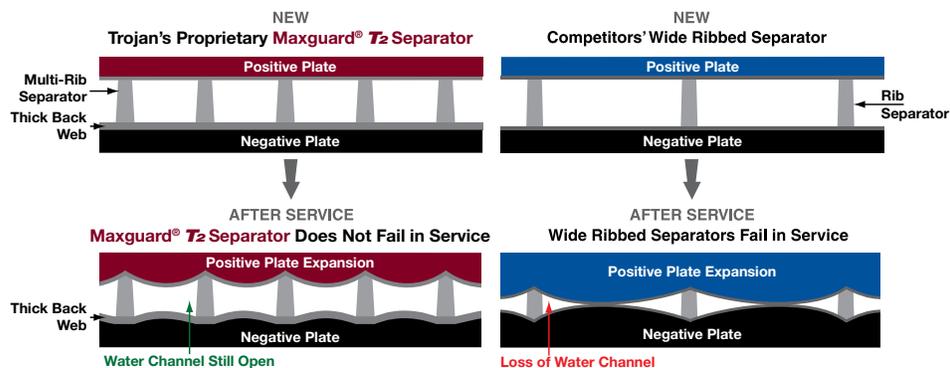
Trojan's grid technology is a lead antimony alloy grid mixture formulated specifically for use with Trojan's Alpha Plus® Paste with **T2 Technology**. The grid formulation provides exceptional structural adhesion between the Alpha Plus Paste and the grid frame. Thick grids reinforce the strength of the frame and reduce overall corrosion. The overall grid configuration is optimized to enhance current flow through the grid network providing exceptional battery performance, reducing downtime and lowering overall maintenance costs.

### Maxguard® **T2** Separator

#### Longer Battery Life

Exclusively available in Trojan batteries is our Maxguard® **T2** advanced separator. Trojan's Maxguard **T2** separator features a multi-rib geometry which keeps acid channels open longer enhancing electrochemical processing while reducing the risk of stratification. Maxguard's proprietary rubber-based material formulation inhibits antimony transfer between the positive grids and negative plates; a protection not available in many other competitor batteries. A newly fortified, thick back web provides even greater separator strength resulting in a more robust battery with increased protection against failures caused by separator degradation. Trojan's Maxguard **T2** advanced separator sustains performance providing exceptionally longer battery life and significantly lowering your operating costs.

### THE MAXGUARD® **T2** SEPARATOR DIFFERENCE





## EXPERIENCE THE TROJAN DIFFERENCE - Reputation Built on Quality, Leadership and Innovation

Founded in 1925 by co-founders George Godber and Carl Speer, Trojan Battery Company is the world's leading manufacturer of deep cycle batteries. From deep cycle flooded batteries to Deep-Cycle Gel and Cycling AGM batteries, Trojan has shaped the world of deep cycle battery technology with over 85 years of battery manufacturing experience. With the invention of the golf car battery for the Autoette vehicle in 1952, Trojan pioneered the development of deep cycle battery technology for the golf industry; successfully introducing mobilization to the game of golf. For Trojan, this began a legacy of leadership and innovation that prevails today in the global, deep cycle markets spanning applications for golf, renewable energy, floor machine, aerial platform and recreational vehicles. Today, Trojan batteries are available worldwide through our global network of master distributors.

Headquartered in Santa Fe Springs, CA, Trojan's operations include ISO 9001:2008 certified manufacturing plants in California and Georgia and international offices located in Europe, UAE and Asia. Trojan is a proud member of the Battery Council International (BCI) and a technical research partner with the Bulgarian Academy of Sciences.

### Environmental Stewardship

At Trojan Battery, when we say, "Clean energy for life™," we mean every word. As proactive supporters of environmental sustainability, our environmental stewardship focuses on clean energy initiatives and recycling programs.

- Trojan batteries are 97% recyclable. The container plastic, battery lead and electrolyte from old deep cycle batteries can be recycled to produce new deep cycle batteries.
- Through its partnership with Southern California Edison (SCE) Trojan saves over 8 million kilowatt hours and cuts CO2 emissions by over 12 million pounds significantly reducing our annual energy consumption and carbon foot print.



## TROJAN – QUALITY

### Research and Development

Quality and innovation are the cornerstones of our product development. As the leading manufacturer of flooded, deep cycle batteries, Trojan retains two state-of-the-art research and development centers dedicated exclusively to battery technology and innovation. Engineering teams, backed by over 200 years of deep cycle development expertise, work together to innovate and bring to market advanced battery technologies that exceed our customers' expectations for outstanding battery performance.

To ensure the quality and superior performance of our batteries Trojan applies the most rigorous testing procedures in the industry to test for cycle life, capacity, charger algorithms and both physical and mechanical integrity. Trojan's battery testing procedures adhere to both BCI and IEC test standards. Trojan's state-of-the-art R&D facilities include charger characterization and analytical labs, battery prototype and evaluation labs and battery autopsy centers all dedicated to providing you with a superior battery that you can rely on.



Prototype development and evaluation



Product life testing



Trojan batteries are available worldwide through Trojan's Master Distributor Network. We offer outstanding technical support, provided by full-time application engineers.

**For a Trojan Master Distributor near you,  
call 800.423.6569 or + 1.562.236.3000 or visit [www.trojanbattery.com](http://www.trojanbattery.com)**

12380 Clark Street, Santa Fe Springs, CA 90670 • USA