ENERGY STORAGE SOLUTIONS
FOR RENEWABLE ENERGY
HYBRID SYSTEMS / BACKUP POWER
As the leading manufacturer of deep-cycle batteries, Trojan Battery Company believes it is possible to make a global shift to energy sources that are environmentally friendly and readily available worldwide.

For nearly 100 years, Trojan Battery has focused its experience and expertise in deep-cycle technology on manufacturing the highest quality, deep-cycle batteries available in the industry.

Trojan Battery’s world-class development team continually tests and innovates new products, systems, and applications, establishing Trojan’s reputation as the world’s #1 deep-cycle battery manufacturer.

Our commitment is to our customer. Trojan Battery ensures that our products are made with the highest quality components and always deliver superior performance, durability and reliability.

Essential to Trojan’s overall commitment to product quality is our investment in independent third-party testing, which provides valuable data on product performance while validating Trojan’s product reliability and quality. This investment ensures that Trojan delivers the best products available for your application.

**THE TROJAN ADVANTAGE**

- World’s leading manufacturer of advanced deep-cycle battery technology
- Worldwide reputation for best return on investment, durability, performance, and quality components
- Outstanding technical and customer service
- Industry leader in health and safety compliance as well as environmental stewardship
- Made in the USA and available in over 120 countries
**TECHNOLOGY** | **SOLAR INDUSTRIAL** | **SOLAR PREMIUM** | **SOLAR SIGNATURE** | **SOLAR AGM** | **BENEFITS**
--- | --- | --- | --- | --- | ---
Smart Carbon™ | | | | | Provides improved charge acceptance and faster recharge under PSOC conditions.
Alpha Plus® Paste with T2 Technology | | | | | Proprietary high-density paste maximizes sustained performance and increases total energy.
DuraGrid™ Technology | | | | | Thick grid structure maintains better corrosion resistance.
Trojan Grid Technology | | | | | Exceptional structural adhesion which enhances current flow and reduces downtime and maintenance costs.
Reinforced Protection Wrap | | | | | Protects against shedding and ensures electrochemical performance.
Maxguard® XL Separator | | | | | Wide-channel design increases acid flow for optimum battery performance.
Premium AGM Separator | | | | | Extra thick separators extend the life-cycle.
Maxguard® T2 Separator | | | | | Optimizes porosity development in active material which sustains battery for longer period of time.
Moss Shield | | | | | Increases battery life by protecting the top of the plates from shorting to the cell strap.
Maximum Flame Arrestors | | | | | Provides maximum safety by preventing sparks from igniting the hydrogen in the battery cell.
Hydrolink™ or Single-Point Watering Kit | | | | | Precise battery watering is safer, easier and faster for Solar Industrial, Premium and Signature batteries.
Premium Casing | | | | | Durable Polyon™ or polypropylene casing protects against damage caused by harsh conditions.

**ENGINEERED AND MANUFACTURED WITH THE RELIABILITY, DURABILITY AND PERFORMANCE OUR CUSTOMERS HAVE COME TO EXPECT.**

At Trojan, we are investing at record levels in manufacturing and production improvement projects at our U.S. facilities. Trojan’s recent addition of advanced robotics, state-of-the-art cast-on-strap (COS) technology, automated acid fill stations, heat seal and testing equipment ensure the overall quality of our batteries.

**ENVIRONMENTAL STEWARDSHIP**

We are proactive supporters of environmental sustainability. Trojan’s environmental stewardship focuses on clean energy initiatives and recycling programs.

Trojan batteries are 99% recyclable. The container plastic, battery lead and electrolyte from old deep-cycle flooded, AGM, and Gel batteries can be recycled to produce new deep-cycle batteries.

**IMPORTANCE OF TESTING LEAD-ACID BATTERIES TO THE IEC 61427 STANDARD**

Life expectancy of Photovoltaic batteries based on lead-acid chemistry has been difficult to quantify – until now. The IEC 61427 test provides performance criteria that lead-acid batteries in Partial State of Charge applications like PV should be measured against.
SOLAR INDUSTRIAL
3,600 CYCLES @ 50% DOD
610 – 2450 Ah @ 100 Hr

- Easy Maintenance
- Maintenance-Free

KEY FEATURES
- Smart Carbon™
- Alpha Plus® Paste with T2 Technology™
- DuraGrid™ Technology
- Reinforced Protection Wrap
- Maxguard® XL Separator
- Moss Shield

SOLAR PREMIUM
1,900 CYCLES @ 50% DOD
225 – 1255 Ah @ 100 Hr

- Easy Maintenance
- Maintenance-Free

KEY FEATURES
- Smart Carbon™
- Alpha Plus® Paste with T2 Technology™
- DuraGrid™ Technology
- Maxguard® XL Separator
- Moss Shield

SOLAR AGM
1,700 CYCLES @ 50% DOD
105 – 375 Ah @ 20 Hr

- Easy Maintenance
- Maintenance-Free

KEY FEATURES
- Alpha Plus® Paste with T2 Technology™
- Premium AGM Separator
- Rugged Construction

SOLAR SIGNATURE
600 – 1,200 CYCLES @ 50% DOD
95 – 490 Ah @ 100 Hr

- Easy Maintenance

KEY FEATURES
- Alpha Plus® Paste with T2 Technology™
- Trojan Grid Technology
- Maxguard® T2 Separator

SOLAR GEL
1,000 CYCLES @ 50% DOD
85 – 265 Ah @ 100 Hr

- Maintenance-Free

KEY FEATURES
- Non-Spillable
- Low Self-Discharge
- No Stratification
- High Temperature Tolerant
- Shock and Vibration Resistant

Please review the Limited Warranty document at www.trojanbattery.com for more information.
Trojan Battery employees work alongside GRID Alternatives personnel in Juntas de Neji, in Baja California, Mexico to provide power for a school.

Trillium®, Trojan’s Intelligent Lithium battery features More Run-time, Life and Peace of Mind. Trillium is designed and engineered in the USA and is available in various capacities that can be used in a variety of solar applications requiring lithium ion technology.

LITHIUM ION
> 5000 CYCLES @ 80% DOD
25.5 – 111 Ah @ 20 Hr

KEY FEATURES
- Microprocessor**
- CAN Communications**
- SDC Gauge
- Cell Balancing
- Amp-Hour Life Tracking
- Battery Management System

*TR 12.8-92 Li-ion and TR 12.8-110 Li-ion
**TR 12.8-92
SOLAR INDUSTRIAL

The Solar Industrial Line is engineered specifically to support renewable energy systems with large daily loads where the batteries are cycled regularly. These high amp-hour capacity batteries are ideal for use in large off-grid photovoltaic (PV) systems, off-grid hybrid PV systems, grid-tied PV systems with battery backup, smart grid peak shifting systems and a variety of other applications. The Solar Industrial Line is tested to IEC standards and features advanced battery technologies that deliver reliable power. Trojan’s Solar Industrial Line is the perfect combination of performance and function.

◆ FLOODED ◆ 610 - 2450 Ah @ 100 Hr ◆ 17 YEARS LIFE ◆ 5-YEAR WARRANTY ◆ EASY MAINTENANCE

SMART CARBON™
Increases the electrochemically active surface area which provides improved charge acceptance and faster recharge in applications where the batteries may experience Partial State Of Charge (PSOC) on a regular basis.

ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™
A proprietary, high-density paste formulation precisely engineered to deliver outstanding battery performance.

DURAGRID™ TECHNOLOGY
Features a thick grid structure which maintains greater corrosion resistance, effectively increasing the life of the battery.

REINFORCED PROTECTION WRAP
Protects against shedding and assures the electrochemical performance of the battery’s active material.

MAXGUARD® XL SEPARATOR
Features a wide-channel design that increases acid flow for optimum battery performance.

MOSS SHIELD
Protects the separators from damage. The moss shield increases the battery life by protecting the top of the plates from shorting to the cell strap.
SOLAR PREMIUM

Renewable Energy applications operate under challenging conditions such as fluctuating or extreme temperatures, remote locations and the intermittent nature of solar and wind power generation. Trojan Battery’s Solar Premium Line of flooded deep-cycle batteries is specifically designed and tested to IEC standards to withstand the rigorous conditions of renewable energy applications. Our product strategy is focused on one simple objective – manufacture the highest quality battery available in the industry.

SMART CARBON™
A proprietary formula of carbon additives designed to enhance battery life and performance.

ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™
Optimizes porosity development in the active material resulting in sustained battery performance over a longer period of time.

DURAGRID™ TECHNOLOGY
Specifically designed for the longer life requirements of renewable energy applications.

MAXGUARD® XL SEPARATOR
30 percent thicker than our T2 flooded battery separator, and provides even greater resistance to stratification which is typically a mode of failure in batteries used in renewable energy systems.

“TROJAN BATTERY PROVIDED THE DURABLE, LONG LASTING ENERGY STORAGE REQUIRED FOR THIS SELF-CONTAINED PV SYSTEM TO WORK PROPERLY WHILE AVOIDING THE NEED TO USE DIESEL. WITH THEIR ROBUST DESIGN AND DOUBLE CASING, TROJAN’S SOLAR BATTERIES SAFELY SHIPPED TO THIS REMOTE LOCATION AND FIT PERFECTLY IN THE OFF-GRID SYSTEM.”

DANIEL MEDINA
OWNER AND FOUNDER OF HEMEVA S.A.S.

TROJAN BATTERY PROVIDED THE DURABLE, LONG LASTING ENERGY STORAGE REQUIRED FOR THIS SELF-CONTAINED PV SYSTEM TO WORK PROPERLY WHILE AVOIDING THE NEED TO USE DIESEL. WITH THEIR ROBUST DESIGN AND DOUBLE CASING, TROJAN’S SOLAR BATTERIES SAFELY SHIPPED TO THIS REMOTE LOCATION AND FIT PERFECTLY IN THE OFF-GRID SYSTEM.”

DANIEL MEDINA
OWNER AND FOUNDER OF HEMEVA S.A.S.

According to IEC 61427
SOLAR SIGNATURE

The Solar Signature Line of deep-cycle flooded batteries is engineered to provide rugged durability and outstanding performance. Trojan’s Solar Signature Line is perfectly suited for use in renewable energy systems where lowest life-cycle cost is the key consideration. An all-around power house, the Solar Signature Line features Trojan’s historically-proven engineering with T2 Technology, an advanced battery technology for maximum sustained performance, longer life and increased total energy.

- FLOODED - 95 – 490 Ah @ 100 Hr - 6 MONTHS TO 1 YEAR WARRANTY - EASY MAINTENANCE

DEPT OF DISCHARGE VS. CYCLE LIFE IN A STATIONARY APPLICATION

1. ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™
   Optimizes porosity development in the active material resulting in sustained battery performance over a longer period of time.

2. TROJAN GRID TECHNOLOGY
   Specifically designed for the longer life requirements of renewable energy applications.

3. MAXGUARD T2 SEPARATOR
   The separator features a multi-rib geometry which keeps acid channels open longer, enhancing electrochemical processing while reducing the risk of stratification. Maxguard’s thick back web provides even greater separator strength resulting in a more robust battery, with increased protection against failures caused by separator degradation.

“HAVING INSTALLED TROJAN BATTERIES OVER 10 YEARS AGO FOR MY OWN SOLAR SYSTEM, THEY CONTINUE TO OUTPERFORM, EXCEEDING MY EXPECTATIONS. I CHOOSE TROJAN BATTERIES BECAUSE THEY ARE DURABLE AND EASY TO MAINTAIN.”

DAVID VERNER
ADIRONDACK SOLAR, ALBANY NY
SOLAR AGM

Trojan has incorporated several key engineering features in its Solar AGM batteries for renewable energy, hybrid and backup power applications that require deep-cycling power in a non-spillable battery design. Engineered for best value and worry-free usage, Trojan Solar AGM maintenance-free batteries can be counted on day in and day out as a reliable power source for a wide range of off-grid, grid-tied and unstable grid applications.

TROJAN’S PROVEN QUALITY AND RELIABILITY IS THE RESULT OF OUR EXTENSIVE ENGINEERING EXPERTISE IN DEEP-CYCLE BATTERY DESIGN. OUR SOLAR AGM BATTERIES FEATURE:

◆ Premium absorbed glass mat separators for maximum performance
◆ Optimized paste formula for solar applications
◆ Flame arrestors for safety
◆ Rugged Polypropylene case for durability

These combined elements deliver increased total energy output, maximized sustained performance, consistent quality, and enhanced durability. The Trojan Solar AGM batteries are produced at its U.S.-based manufacturing operations which employ the latest technology, testing and quality check standards in the industry.

SOLAR GEL

Trojan’s non-spillable, maintenance-free gel batteries deliver superior energy in demanding renewable energy applications. Engineered for rugged durability, outstanding performance and long battery life, Trojan’s deep-cycle gel batteries feature a proprietary gel formulation which provides consistent performance. Its active material effectively adheres to the heavy-duty thick grids supplying concentrated energy to the terminals.
TRILLIUM Li-ION

Trillium™, Trojan’s Intelligent Lithium battery features More Run-time, Life and Peace of Mind. Trillium is designed and engineered in the USA and is available in various capacities that can be used in a variety of solar applications requiring lithium ion technology.

WHY TROJAN INTELLIGENT LITHIUM ION?

SUPERIOR CELL SELECTION

Trillium features a Trojan-specific cell, which undergoes a 128-point quality control check and is 100 percent X-ray inspected to ensure the highest quality. It’s cobalt-free and nickel-free, and it features the industry’s safest chemistry. Most importantly, Trillium delivers extraordinary life—greater than 5,000 cycles—and this power is packed into a battery footprint that’s 20 percent smaller than competitive offerings.

SUPERIOR BATTERY DESIGN

Trillium has automotive-grade components for durability, safety, and a current sensor, fuse, and temperature sensor. It’s waterproof and dust proof, with an IP67 environmental rating—the highest in its class, by far.

Trillium is designed to be a true replacement for deep-cycle lead-acid batteries and can be used with existing lead-acid chargers with AGM/GEL settings (I-E profile).

SUPERIOR ELECTRONICS

Trillium offers unique, advanced electronic features such as a visual SOC (state of charge) gauge on the top of the battery.* A microprocessor* ensures the battery is completely self-protected, and if a problem is detected, will turn itself off. When a problem goes away, it turns back on, automatically self-healing.

Integrated Controller Area Network (CAN)** communications share battery data—state of charge, state of health, and fault status—with other devices.

Trillium also has the built-in ability to track lifetime amp-hours throughput and historical fault data is stored.*

SUPERIOR PERFORMANCE

Trillium gives you more runtime and a longer life than competitors’ batteries in its class and delivers consistent power across the state of charge range. It can be charged in less than two hours. It features a simple system that is scalable to support 48 volt applications.

SUPERIOR OPPORTUNITY

Trillium is designed and engineered in the USA by Trojan, the world’s leading supplier of deep-cycle batteries for nearly 100 years. You can be confident that Trillium is the highest quality product on the market—backed by Trojan’s extraordinary customer support.

*TR 12.8-92 Li-Ion and TR 12.8-110 Li-Ion
**TR 12.8-92
# SOLAR PRODUCT SPECIFICATION GUIDE

## SOLAR INDUSTRIAL LINE – DEEP-CYCLE FLOODED BATTERIES WITH SMART CARBON™ – 3,600 CYCLES @ 50% DOD

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>CAPACITY * AMP-HOURS (Ah)</th>
<th>ENERGY (Wh)</th>
<th>DEFAULT TERMINAL</th>
<th>DIMENSIONS ± INCHES (mm)</th>
<th>WEIGHT ± LBLS. (kg)</th>
<th>HANDLES</th>
<th>INSTALLATION ORIENTATION</th>
</tr>
</thead>
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<tr>
<td>SIND 04 610</td>
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<td>SIND 04 1225</td>
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## SOLAR PREMIUM LINE – DEEP-CYCLE FLOODED BATTERIES WITH SMART CARBON™ – 1,900 CYCLES @ 50% DOD

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>CAPACITY * AMP-HOURS (Ah)</th>
<th>ENERGY (Wh)</th>
<th>DEFAULT TERMINAL</th>
<th>DIMENSIONS ± INCHES (mm)</th>
<th>WEIGHT ± LBLS. (kg)</th>
<th>HANDLES</th>
<th>INSTALLATION ORIENTATION</th>
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<td>SPRE 12 225*</td>
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## SOLAR SIGNATURE LINE – DEEP-CYCLE FLOODED BATTERIES – 1,200 CYCLES @ 50% DOD

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>CAPACITY * AMP-HOURS (Ah)</th>
<th>ENERGY (Wh)</th>
<th>DEFAULT TERMINAL</th>
<th>DIMENSIONS ± INCHES (mm)</th>
<th>WEIGHT ± LBLS. (kg)</th>
<th>HANDLES</th>
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<tr>
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<td>12 VOLT</td>
<td>211 229 237 247 255 3.06 6 14.97 (380) 6.91 (176) 14.67 (373) 123 (56)</td>
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## SOLAR SIGNATURE LINE – DEEP-CYCLE FLOODED BATTERIES – 600 CYCLES @ 50% DOD

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<tr>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>CAPACITY * AMP-HOURS (Ah)</th>
<th>ENERGY (Wh)</th>
<th>DEFAULT TERMINAL</th>
<th>DIMENSIONS ± INCHES (mm)</th>
<th>WEIGHT ± LBLS. (kg)</th>
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<td>SSIG 12 120</td>
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### TERMINAL CONFIGURATIONS

1 – ELPT
2 – EHPT
5 – LT
6 – DT
7 – UT
8 – AP
9 – WNT
14 – IND
15 – M6/M8
16 – SLT

**CONFIGURE YOUR RENEWABLE ENERGY SYSTEM WITH TROJAN BATTERIES USING THE ONLINE RENEWABLE ENERGY BATTERY SIZING CALCULATOR**

[www.batterysizingcalculator.com](http://www.batterysizingcalculator.com)
### SOLAR AGM LINE - DEEP-CYCLE AGM BATTERIES – 1,700 CYCLES @ 50% DOD

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>CAPACITY * AMP-HOURS (Ah)</th>
<th>ENERGY (kWh)</th>
<th>DEFAULT TERMINAL</th>
<th>DIMENSIONS  ** DIMENSIONS ** INCHES (mm)</th>
<th>WEIGHT # LBS. (kg)</th>
<th>HANDLES</th>
<th>INSTALLATION ORIENTATION</th>
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<td>12 VOLT</td>
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<td>15</td>
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<td>Horizontal and Vertical</td>
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<tr>
<td>SAGM 12 135</td>
<td>12 VOLT</td>
<td>131 135 136 137 137</td>
<td>1.62</td>
<td>15</td>
<td>12.96 (329) 7.06 (179) 10.96 (278) 83 (38)</td>
<td>Embedded</td>
<td>Horizontal and Vertical</td>
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<td>1.32</td>
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<td>10.30 (262) 7.06 (179) 10.73 (273) 68 (31)</td>
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<td>Braided Rope</td>
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### SOLAR DEEP-CYCLE GEL BATTERIES – 1,000 CYCLES @ 50% DOD

<table>
<thead>
<tr>
<th>BCI GROUP SIZE</th>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>NOMINAL CAPACITY</th>
<th>CAPACITY AMP-HOURS (Ah)</th>
<th>ENERGY (kWh)</th>
<th>SHORT CIRCUIT CURRENT (A)</th>
<th>TERMINAL TYPE</th>
<th>DIMENSIONS ** DIMENSIONS ** INCHES (mm)</th>
<th>WEIGHT # LBS. (kg)</th>
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<tr>
<td>24</td>
<td>24-GEL</td>
<td>12 VOLT</td>
<td>66</td>
<td>85 100</td>
<td>1.20 7</td>
<td>10.92 (277) 6.61 (168) 9.26 (235)</td>
<td>Molded Plastic</td>
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<td>27</td>
<td>27-GEL</td>
<td>12 VOLT</td>
<td>76</td>
<td>91 100</td>
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<tr>
<td>DIN</td>
<td>5SHP-GEL</td>
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<td>125 137</td>
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<td>8D</td>
<td>8D-GEL</td>
<td>12 VOLT</td>
<td>188</td>
<td>225 265</td>
<td>3.18 5</td>
<td>20.69 (526) 10.95 (278) 10.82 (275)</td>
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<td>GC8-GEL</td>
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<td>114</td>
<td>140 160</td>
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<td>GC2</td>
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<td>189 198</td>
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<tr>
<td>DIN</td>
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<td>6 VOLT</td>
<td>180</td>
<td>210 220</td>
<td>1.32 6</td>
<td>9.64 (245) 7.51 (191) 10.65 (271)</td>
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### TRILLIUM™ DEEP-CYCLE LITHIUM BATTERIES – >5000 CYCLES @80% DOD

<table>
<thead>
<tr>
<th>BCI GROUP SIZE</th>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>NOMINAL CAPACITY</th>
<th>CAPACITY AMP-HOURS (Ah)</th>
<th>ENERGY (kWh)</th>
<th>SHORT CIRCUIT CURRENT (A)</th>
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<th>DIMENSIONS ** DIMENSIONS ** INCHES (mm)</th>
<th>WEIGHT # LBS. (kg)</th>
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</thead>
<tbody>
<tr>
<td>24</td>
<td>TR 12.8-92 LI-ION</td>
<td>12.8V</td>
<td>92Ah (1,177Wh)</td>
<td>92 92 92.5 1.18</td>
<td>Fused @ 400 Amps</td>
<td>MB-1.25 Threaded Hole</td>
<td>10.16 (256) 6.61 (168) 8.50 (216)</td>
<td>27 (12)</td>
<td></td>
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<tr>
<td>27</td>
<td>TR 12.8-110 LI-ION</td>
<td>12.8V</td>
<td>110Ah (1,408Wh)</td>
<td>110 110 111 1.42</td>
<td>Fused @ 500 Amps</td>
<td>5/16”-18 Stud and 1/4”-20 Threaded Hole</td>
<td>12.07 (307) 6.57 (167) 8.83 (219)</td>
<td>30 (14)</td>
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<td>U1</td>
<td>TR 25.6-25 LI-ION</td>
<td>25.6V</td>
<td>25Ah (640Wh)</td>
<td>25 25 25.5 0.65</td>
<td>Fused @ 125 Amps</td>
<td>MB-1.0 Threaded Hole</td>
<td>7.76 (197) 5.20 (132) 6.74 (171)</td>
<td>12 (6)</td>
<td></td>
</tr>
</tbody>
</table>

- **A.** The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 86°F (30°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- **B.** Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
- **C.** Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- **D.** Terminal images are representative only.
- **E.** Weights may vary.
- **F.** The amount of amp-hours (Ah) GEL batteries can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.

Trojan’s battery testing procedures adhere to both BCI and IEC test standards.

**Polyon™ Case**

*All children should be supervised when working with batteries.*

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Please check the Trojan Battery website (www.trojanbattery.com) for the most up-to-date information.

12380 CLARK STREET, SANTA FE SPRINGS, CA 90670

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**99% RECYCLABLE LEAD-ACID ONLY**

**TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2015**

**Do not mix Lithium-Ion Batteries with Lead-Acid Batteries when recycling.**

---

**Battery Council International**

**IEC**

**UL®**

**Applies to Solar AGM battery line only**

---

**TRJN0159_RESeriesColl_081919**
ENERGY STORAGE SOLUTIONS
FOR RENEWABLE ENERGY HYBRID SYSTEMS / BACKUP POWER
As the leading manufacturer of deep-cycle batteries, Trojan Battery Company believes it is possible to make a global shift to energy sources that are environmentally friendly and readily available worldwide.

For nearly 100 years, Trojan Battery has focused its experience and expertise in deep-cycle technology on manufacturing the highest quality, deep-cycle batteries available in the industry.

Trojan Battery’s world-class development team continually tests and innovates new products, systems, and applications, establishing Trojan’s reputation as the world’s #1 deep-cycle battery manufacturer.

Our commitment is to our customer. Trojan Battery ensures that our products are made with the highest quality components and always deliver superior performance, durability and reliability.

Essential to Trojan’s overall commitment to product quality is our investment in independent third-party testing, which provides valuable data on product performance while validating Trojan's product reliability and quality. This investment ensures that Trojan delivers the best products available for your application.

THE TROJAN ADVANTAGE

- World’s leading manufacturer of advanced deep-cycle battery technology
- Worldwide reputation for best return on investment, durability, performance, and quality components
- Outstanding technical and customer service
- Industry leader in health and safety compliance as well as environmental stewardship
- Made in the USA and available in over 120 countries
**TECHNOLOGY** | **SOLAR INDUSTRIAL** | **SOLAR PREMIUM** | **SOLAR SIGNATURE** | **SOLAR AGM** | **BENEFITS**
--- | --- | --- | --- | --- | ---
Smart Carbon™ | | | | | Provides improved charge acceptance and faster recharge under PSOC conditions.
Alpha Plus® Paste with T2 Technology | | | | | Proprietary high-density paste maximizes sustained performance and increases total energy.
DuraGrid™ Technology | | | | | Thick grid structure maintains better corrosion resistance.
Trojan Grid Technology | | | | | Exceptional structural adhesion which enhances current flow and reduces downtime and maintenance costs.
Reinforced Protection Wrap | | | | | Protects against shedding and ensures electrochemical performance.
Maxguard® XL Separator | | | | | Wide-channel design increases acid flow for optimum battery performance.
Premium AGM Separator | | | | | Extra thick separators extend the life-cycle.
Maxguard® T2 Separator | | | | | Optimizes porosity development in active material which sustains battery for longer period of time.
Moss Shield | | | | | Increases battery life by protecting the top of the plates from shorting to the cell strap.
Maximum Flame Arrestors | | | | | Provides maximum safety by preventing sparks from igniting the hydrogen in the battery cell.
Hydrolink™ or Single-Point Watering Kit | | | | | Precise battery watering is safer, easier and faster for Solar Industrial, Premium and Signature batteries.
Premium Casing | | | | | Durable Polyon™ or polypropylene casing protects against damage caused by harsh conditions.

**ENGINEERED AND MANUFACTURED WITH THE RELIABILITY, DURABILITY AND PERFORMANCE OUR CUSTOMERS HAVE COME TO EXPECT.**

At Trojan, we are investing at record levels in manufacturing and production improvement projects at our U.S. facilities. Trojan’s recent addition of advanced robotics, state-of-the-art cast-on-strap (COS) technology, automated acid fill stations, heat seal and testing equipment ensure the overall quality of our batteries.

**ENVIRONMENTAL STEWARDSHIP**

We are proactive supporters of environmental sustainability. Trojan’s environmental stewardship focuses on clean energy initiatives and recycling programs.

Trojan batteries are 99% recyclable. The container plastic, battery lead and electrolyte from old deep-cycle flooded, AGM, and Gel batteries can be recycled to produce new deep-cycle batteries.

**IMPORTANCE OF TESTING LEAD-ACID BATTERIES TO THE IEC 61427 STANDARD**

Life expectancy of Photovoltaic batteries based on lead-acid chemistry has been difficult to quantify – until now. The IEC 61427 test provides performance criteria that lead-acid batteries in Partial State of Charge applications like PV should be measured against.
EASY MAINTENANCE

17 
YEARS

MAINTENANCE-FREE

8+
YEARS

20+
YEARS

KEY FEATURES
Smart Carbon™
Alpha Plus® Paste with T2 Technology™
DuraGrid™ Technology
Reinforced Protection Wrap
Maxguard® XL Separator
Moss Shield

1,900 CYCLES @ 50% DOD
225 – 1255 Ah @ 100 Hr

KEY FEATURES
Smart Carbon™
Alpha Plus® Paste with T2 Technology™
DuraGrid™ Technology
Maxguard® XL Separator
Moss Shield

1,700 CYCLES @ 50% DOD
105 – 375 Ah @ 20 Hr

KEY FEATURES
Alpha Plus® Paste with T2 Technology™
Premium AGM Separator
Rugged Construction

600 – 1,200 CYCLES @ 50% DOD
95 – 490 Ah @ 100 Hr

KEY FEATURES
Alpha Plus® Paste with T2 Technology™
Trojan Grid Technology
Maxguard® T2 Separator
Non-Spillable
Low Self-Discharge
No Stratification

1,000 CYCLES @ 50% DOD
85 – 265 Ah @ 100 Hr

KEY FEATURES
Non-Spillable
Low Self-Discharge
No Stratification
High Temperature Tolerant
Shock and Vibration Resistant

Please review the Limited Warranty document at www.trojanbattery.com for more information.
Trillium®, Trojan’s Intelligent Lithium battery features More Run-time, Life and Peace of Mind. Trillium is designed and engineered in the USA and is available in various capacities that can be used in a variety of solar applications requiring lithium ion technology.

**LITHIUM ION**

> 5000 CYCLES @ 80% DOD
25.5 – 111 Ah @ 20 Hr

**KEY FEATURES**

- Microprocessor*
- CAN Communications**
- SOC Gauge
- Cell Balancing
- Amp-Hour Life Tracking
- Battery Management System

*TR 12.8-92 Li-Ion and TR 12.8-110 Li-Ion
**TR 12.8-82
SOLAR INDUSTRIAL

The Solar Industrial Line is engineered specifically to support renewable energy systems with large daily loads where the batteries are cycled regularly. These high amp-hour capacity batteries are ideal for use in large off-grid photovoltaic (PV) systems, off-grid hybrid PV systems, grid-tied PV systems with battery backup, smart grid peak shifting systems and a variety of other applications. The Solar Industrial Line is tested to IEC standards and features advanced battery technologies that deliver reliable power. Trojan’s Solar Industrial Line is the perfect combination of performance and function.

- **FLOODED**
- **610 - 2450 Ah @ 100 Hr**
- **17 YEARS LIFE**
- **5-YEAR WARRANTY**
- **EASY MAINTENANCE**

**DEPT OF DISCHARGE VS. CYCLE LIFE IN A STATIONARY APPLICATION**

**SOLAR INDUSTRIAL**
3,600 CYCLES @ 50% DOD
SIND 06 410, SIND 06 920, SIND 06 1225, SIND 04 1685, SIND 04 2145, SIND 02 1990, SIND 02 2450

**SMART CARBON™**
Increases the electrochemically active surface area which provides improved charge acceptance and faster recharge in applications where the batteries may experience Partial State Of Charge (PSOC) on a regular basis.

**ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™**
A proprietary, high-density paste formulation precisely engineered to deliver outstanding battery performance.

**DURAGRID™ TECHNOLOGY**
Features a thick grid structure which maintains greater corrosion resistance, effectively increasing the life of the battery.

**REINFORCED PROTECTION WRAP**
Protects against shedding and assures the electrochemical performance of the battery’s active material.

**MAXGUARD® XL SEPARATOR**
Features a wide-channel design that increases acid flow for optimum battery performance.

**MOSS SHIELD**
Protects the separators from damage. The moss shield increases the battery life by protecting the top of the plates from shorting to the cell strap.

**SUSTAINED CAPACITY OVER IEC LIFE TEST**

**ACTUAL TEST DATA ON SIND 06 920 UNDER IEC 61427 LIFE TEST**

**YEARS OF LIFE (IEC SEGMENTS)**
SOLAR PREMIUM

Renewable Energy applications operate under challenging conditions such as fluctuating or extreme temperatures, remote locations and the intermittent nature of solar and wind power generation. Trojan Battery’s Solar Premium Line of flooded deep-cycle batteries is specifically designed and tested to IEC standards to withstand the rigorous conditions of renewable energy applications. Our product strategy is focused on one simple objective – manufacture the highest quality battery available in the industry.

1. SMART CARBON™
   A proprietary formula of carbon additives designed to enhance battery life and performance.

2. ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™
   Optimizes porosity development in the active material resulting in sustained battery performance over a longer period of time.

3. DURAGRID™ TECHNOLOGY
   Specifically designed for the longer life requirements of renewable energy applications.

4. MAXGUARD® XL SEPARATOR
   30 percent thicker than our T2 flooded battery separator, and provides even greater resistance to stratification which is typically a mode of failure in batteries used in renewable energy systems.

“TROJAN BATTERY PROVIDED THE DURABLE, LONG LASTING ENERGY STORAGE REQUIRED FOR THIS SELF-CONTAINED PV SYSTEM TO WORK PROPERLY WHILE AVOIDING THE NEED TO USE DIESEL. WITH THEIR ROBUST DESIGN AND DOUBLE CASING, TROJAN’S SOLAR BATTERIES SAFELY SHIPPED TO THIS REMOTE LOCATION AND FIT PERFECTLY IN THE OFF-GRID SYSTEM.”

DANIEL MEDINA
OWNER AND FOUNDER OF HEMEVA S.A.S.

1. SMART CARBON™
2. ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™
3. DURAGRID™ TECHNOLOGY
4. MAXGUARD® XL SEPARATOR

“According to IEC 61427”
SOLAR SIGNATURE

The Solar Signature Line of deep-cycle flooded batteries is engineered to provide rugged durability and outstanding performance. Trojan’s Solar Signature Line is perfectly suited for use in renewable energy systems where lowest life-cycle cost is the key consideration. An all-around power house, the Solar Signature Line features Trojan’s historically-proven engineering with T2 Technology, an advanced battery technology for maximum sustained performance, longer life and increased total energy.

1. ALPHA PLUS® PASTE WITH T2 TECHNOLOGY™
   Optimize porosity development in the active material resulting in sustained battery performance over a longer period of time.

2. TROJAN GRID TECHNOLOGY
   Specifically designed for the longer life requirements of renewable energy applications.

3. MAXGUARD T2 SEPARATOR
   The separator features a multi-rib geometry which keeps acid channels open longer, enhancing electrochemical processing while reducing the risk of stratification. Maxguard’s thick back web provides even greater separator strength resulting in a more robust battery, with increased protection against failures caused by separator degradation.

“HAVING INSTALLED TROJAN BATTERIES OVER 10 YEARS AGO FOR MY OWN SOLAR SYSTEM, THEY CONTINUE TO OUTPERFORM, EXCEEDING MY EXPECTATIONS. I CHOOSE TROJAN BATTERIES BECAUSE THEY ARE DURABLE AND EASY TO MAINTAIN.”

DAVID VERNER
ADIRONDACK SOLAR, ALBANY NY
SOLAR AGM

Trojan has incorporated several key engineering features in its Solar AGM batteries for renewable energy, hybrid and backup power applications that require deep-cycling power in a non-spillable battery design. Engineered for best value and worry-free usage, Trojan Solar AGM maintenance-free batteries can be counted on day in and day out as a reliable power source for a wide range of off-grid, grid-tied and unstable grid applications.

TROJAN’S PROVEN QUALITY AND RELIABILITY IS THE RESULT OF OUR EXTENSIVE ENGINEERING EXPERTISE IN DEEP-CYCLE BATTERY DESIGN. OUR SOLAR AGM BATTERIES FEATURE:

◆ Premium absorbed glass mat separators for maximum performance
◆ Optimized paste formula for solar applications
◆ Flame arrestors for safety
◆ Rugged Polypropylene case for durability

These combined elements deliver increased total energy output, maximized sustained performance, consistent quality, and enhanced durability. The Trojan Solar AGM batteries are produced at its U.S.-based manufacturing operations which employ the latest technology, testing and quality check standards in the industry.

SOLAR GEL

Trojan’s non-spillable, maintenance-free gel batteries deliver superior energy in demanding renewable energy applications. Engineered for rugged durability, outstanding performance and long battery life, Trojan’s deep-cycle gel batteries feature a proprietary gel formulation which provides consistent performance. Its active material effectively adheres to the heavy-duty thick grids supplying concentrated energy to the terminals.
WHY TROJAN INTELLIGENT LITHIUM ION?

SUPERIOR CELL SELECTION
Trillium features a Trojan-specific cell, which undergoes a 128-point quality control check and is 100 percent X-ray inspected to ensure the highest quality. It’s cobalt-free and nickel-free, and it features the industry’s safest chemistry.
Most importantly, Trillium delivers extraordinary life—greater than 5,000 cycles—and this power is packed into a battery footprint that’s 20 percent smaller than competitive offerings.

SUPERIOR BATTERY DESIGN
Trillium has automotive-grade components for durability, safety, and a current sensor, fuse, and temperature sensor. It’s waterproof and dust proof, with an IP67 environmental rating—the highest in its class, by far.
Trillium is designed to be a true replacement for deep-cycle lead-acid batteries and can be used with existing lead-acid chargers with AGM/GEL settings (I-E profile).

SUPERIOR ELECTRONICS
Trillium offers unique, advanced electronic features such as a visual SOC (state of charge) gauge on the top of the battery.* A microprocessor* ensures the battery is completely self-protected, and if a problem is detected, will turn itself off. When a problem goes away, it turns back on, automatically self-healing.
Integrated Controller Area Network (CAN)** communications share battery data—state of charge, state of health, and fault status—with other devices.
Trillium also has the built-in ability to track lifetime amp-hours throughput and historical fault data is stored.*

SUPERIOR PERFORMANCE
Trillium gives you more runtime and a longer life than competitors’ batteries in its class and delivers consistent power across the state of charge range. It can be charged in less than two hours. It features a simple system that is scalable to support 48 volt applications.

SUPERIOR OPPORTUNITY
Trillium is designed and engineered in the USA by Trojan, the world’s leading supplier of deep-cycle batteries for nearly 100 years. You can be confident that Trillium is the highest quality product on the market—backed by Trojan’s extraordinary customer support.

* TR 12.8-92 Li-Ion and TR 12.8-110 Li-Ion
** TR 12.8-92
SOLAR PRODUCT SPECIFICATION GUIDE

TERMINAL CONFIGURATIONS

1 – ELPT Embedded Low Profile
2 – EHPT Embedded High Profile
5 – LT L-Terminal
6 – DT Automotive Post & Stud
7 – UT Universal
8 – AP Automotive Post
9 – WNT Wingnut
14 – IND Industrial
15 – M6/M8 6mm/8mm Insert
16 – SLT Small L-Terminal

CONFIGURE YOUR RENEWABLE ENERGY SYSTEM WITH TROJAN BATTERIES USING THE ONLINE RENEWABLE ENERGY BATTERY SIZING CALCULATOR

www.batterysizingcalculator.com
**LEAD-ACID ONLY**

Do not mix Lithium-Ion Batteries with Lead-Acid Batteries when recycling.

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Please check the Trojan Battery website (www.trojanbattery.com) for the most up-to-date information.

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### SOLAR AGM LINE - DEEP-CYCLE AGM BATTERIES – 1,700 CYCLES @ 50% DOD

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<tr>
<th>Model Name</th>
<th>Voltage</th>
<th>Capacity (Ah)</th>
<th>Voltage</th>
<th>Amp-Hours (Ah)</th>
<th>Energy (kWh)</th>
<th>Dimensions (in.)</th>
<th>Weight (lbs.)</th>
<th>Handles</th>
<th>Installation Orientation</th>
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<tbody>
<tr>
<td>SAGM 12 105</td>
<td>12 VOLT</td>
<td>94 105 108 111 113</td>
<td>12.80 (325) 6.81 (173) 8.34 (237) 67 (30)</td>
<td>Molded Plastic</td>
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<table>
<thead>
<tr>
<th>Group Size</th>
<th>Model Name</th>
<th>Voltage</th>
<th>Capacity (Ah)</th>
<th>Voltage</th>
<th>Amp-Hours (Ah)</th>
<th>Energy (kWh)</th>
<th>Dimensions (in.)</th>
<th>Weight (lbs.)</th>
<th>Handles</th>
<th>Installation Orientation</th>
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<tbody>
<tr>
<td>24</td>
<td>24-GEL</td>
<td>12 VOLT</td>
<td>66 77 85</td>
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<td>6</td>
<td>10.92 (277) 6.61 (173) 9.26 (235)</td>
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<td>8D</td>
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<td>GC8</td>
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### TRILLIUM™ DEEP-CYCLE LITHIUM BATTERIES – >5000 CYCLES @80% DOD

<table>
<thead>
<tr>
<th>Group Size</th>
<th>Model Name</th>
<th>Voltage</th>
<th>Capacity (Ah)</th>
<th>Voltage</th>
<th>Amp-Hours (Ah)</th>
<th>Energy (kWh)</th>
<th>Dimensions (in.)</th>
<th>Weight (lbs.)</th>
<th>Handles</th>
<th>Installation Orientation</th>
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<tbody>
<tr>
<td>24</td>
<td>TR 12.8-92 LI-ION</td>
<td>12.8V</td>
<td>90Ah (1.777Wh)</td>
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<td>92</td>
<td>92.5</td>
<td>1.18</td>
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<td>TR 12.8-110 LI-ION</td>
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<td>110</td>
<td>111</td>
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