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
<table>
<thead>
<tr>
<th>TECHNOLOGY</th>
<th>SOLAR INDUSTRIAL</th>
<th>SOLAR PREMIUM</th>
<th>SOLAR SIGNATURE</th>
<th>SOLAR AGM</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Carbon™</td>
<td>☑</td>
<td>☑</td>
<td></td>
<td></td>
<td>Provides improved charge acceptance and faster recharge under PSOC conditions.</td>
</tr>
<tr>
<td>Alpha Plus® Paste with T2 Technology</td>
<td>☑</td>
<td></td>
<td>☑</td>
<td></td>
<td>Proprietary high-density paste maximizes sustained performance and increases total energy.</td>
</tr>
<tr>
<td>DuraGrid™ Technology</td>
<td>☑</td>
<td></td>
<td></td>
<td>☑</td>
<td>Thick grid structure maintains better corrosion resistance.</td>
</tr>
<tr>
<td>Trojan Grid Technology</td>
<td></td>
<td></td>
<td></td>
<td>☑</td>
<td>Exceptional structural adhesion which enhances current flow and reduces downtime and maintenance costs.</td>
</tr>
<tr>
<td>Reinforced Protection Wrap</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td>Protects against shedding and ensures electrochemical performance.</td>
</tr>
<tr>
<td>Maxguard® XL Separator</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td>Wide-channel design increases acid flow for optimum battery performance.</td>
</tr>
<tr>
<td>Premium AGM Separator</td>
<td></td>
<td></td>
<td></td>
<td>☑</td>
<td>Extra thick separators extend the life-cycle.</td>
</tr>
<tr>
<td>Maxguard® T2 Separator</td>
<td></td>
<td></td>
<td></td>
<td>☑</td>
<td>Optimizes porosity development in active material which sustains battery for longer period of time.</td>
</tr>
<tr>
<td>Moss Shield</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
<td>Increases battery life by protecting the top of the plates from shorting to the cell strap.</td>
</tr>
<tr>
<td>Maximum Flame Arrestors</td>
<td>☑</td>
<td></td>
<td></td>
<td>☑</td>
<td>Provides maximum safety by preventing sparks from igniting the hydrogen in the battery cell.</td>
</tr>
<tr>
<td>Hydrolink™ or Single-Point Watering Kit</td>
<td>☑</td>
<td></td>
<td></td>
<td>☑</td>
<td>Precise battery watering is safer, easier and faster for Solar Industrial, Premium and Signature batteries.</td>
</tr>
<tr>
<td>Premium Casing</td>
<td></td>
<td></td>
<td></td>
<td>☑</td>
<td>Durable Polyon™ or polypropylene casing protects against damage caused by harsh conditions.</td>
</tr>
</tbody>
</table>

**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

**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

**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

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

SOLAR SIGNATURE
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

SOLAR GEL
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
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.

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 INDUSTRIAL
3,600 CYCLES @ 50% DOD
SIND 06 610, SIND 06 920, SIND 06 1225, SIND 04 1685, SIND 04 2145, SIND 02 1990, SIND 02 2450

SUSTAINED CAPACITY OVER IEC LIFE TEST

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

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
YEARS OF LIFE (IEC SEGMENTS)

% OF INITIAL CAPACITY

0 20 40 60 80 100

DEPT OF DISCHARGE VS. CYCLE LIFE IN A STATIONARY APPLICATION

NUMBER OF CYCLES 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500

DEPTH OF DISCHARGE

20% 30% 40% 50% 60% 70% 80%

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

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.

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.

- FLOODED • 225 – 1255 Ah @ 100 Hr • 8+ YEARS LIFE* • 3-YEAR WARRANTY • EASY MAINTENANCE

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.

*Solar Premium

SOLAR PREMIUM
1,900 CYCLES @ 50% DOD
SPRE 06 225, SPRE 06 255, SPRE 06 415, SPRE 02 1255

DEPTH OF DISCHARGE VS. CYCLE LIFE IN A STATIONARY APPLICATION

SUSTAINED CAPACITY
OVER IEC LIFE TEST

ACTUAL TEST DATA ON SPRE 06 415 UNDER IEC 61427 LIFE TEST

YEARS OF LIFE (IEC SEGMENTS)

% OF INITIAL CAPACITY

DEPT-OF-DISCHARGE

NUMBER OF CYCLES
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.

![Solar Signature Battery Image]

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

- **SOLAR SIGNATURE**
  - 1,200 CYCLES @ 50% DOD
    - SSIG 06 190, SSIG 06 220, SSIG 06 245, SSIG 06 250, SSIG 06 205, SSIG 06 285, SSIG 06 290, SSIG 06 375, SSIG 06 405, SSIG 06 475, SSIG 06 495

- **SOLAR SIGNATURE**
  - 600 CYCLES @ 50% DOD
    - SSIG 06 95, SSIG 06 120, SSIG 06 145

**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.
Why Trojan Intelligent Lithium Ion?

Superior Cell Selection

Trillium features a Trojan-specific cell, which undergoes rigorous quality control checks and inspection 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 important battery data that includes state of charge and temperature information with other devices.

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
3. **LT** - L-Terminal
4. **DT** - Automotive Post & Stud
5. **UT** - Universal
6. **AP** - Automotive Post
7. **WNT** - Wingnut
8. **IND** - Industrial
9. **M6/M8** - 6mm/8mm Insert
10. **SLT** - Small L-Terminal

## 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 (Ah)</th>
<th>Voltage</th>
<th>Default Terminal</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Handles</th>
<th>Installation Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIND 06 610</td>
<td>6 VOLT</td>
<td>421</td>
<td>472</td>
<td>540</td>
<td>578</td>
<td>610</td>
<td>3.66</td>
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<tr>
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<td>708</td>
<td>813</td>
<td>870</td>
<td>920</td>
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<td>942</td>
<td>1083</td>
<td>1159</td>
<td>1225</td>
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<tr>
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<tr>
<td>SIND 08 1990</td>
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<td>1990</td>
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</table>

## 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 (Ah)</th>
<th>Voltage</th>
<th>Default Terminal</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Handles</th>
<th>Installation Orientation</th>
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</thead>
<tbody>
<tr>
<td>SPRE 12 225*</td>
<td>12 VOLT</td>
<td>179</td>
<td>204</td>
<td>212</td>
<td>216</td>
<td>225</td>
<td>2.70</td>
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<tr>
<td>SPRE 06 255</td>
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<td>229</td>
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<td>255</td>
<td>1.53</td>
<td>16</td>
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<tr>
<td>SPRE 06 415*</td>
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<td>346</td>
<td>377</td>
<td>401</td>
<td>410</td>
<td>415</td>
<td>2.50</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 (Ah)</th>
<th>Voltage</th>
<th>Default Terminal</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Handles</th>
<th>Installation Orientation</th>
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<tbody>
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<td>12 VOLT</td>
<td>136</td>
<td>153</td>
<td>157</td>
<td>164</td>
<td>170</td>
<td>2.04</td>
<td>2</td>
</tr>
<tr>
<td>SSIG 10 230*</td>
<td>12 VOLT</td>
<td>192</td>
<td>209</td>
<td>214</td>
<td>223</td>
<td>230</td>
<td>2.76</td>
<td>6</td>
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<tr>
<td>SSIG 10 255*</td>
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<td>211</td>
<td>229</td>
<td>237</td>
<td>247</td>
<td>255</td>
<td>3.06</td>
<td>6</td>
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<tr>
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<td>SSIG 06 255</td>
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<td>211</td>
<td>229</td>
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<td>247</td>
<td>255</td>
<td>1.53</td>
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<td>290</td>
<td>1.74</td>
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<td>6 VOLT</td>
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<td>348</td>
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<td>455</td>
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<td>490</td>
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</tbody>
</table>

## Solar Signature Line – Deep-Cycle Flooded Batteries – 600 Cycles @ 50% DOD

<table>
<thead>
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<th>Voltage</th>
<th>Capacity (Ah)</th>
<th>Voltage</th>
<th>Default Terminal</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
<th>Handles</th>
<th>Installation Orientation</th>
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<tbody>
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<td>SSIG 12 95</td>
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<td>87</td>
<td>88</td>
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<tr>
<td>SSIG 12 120</td>
<td>12 VOLT</td>
<td>99</td>
<td>107</td>
<td>111</td>
<td>116</td>
<td>120</td>
<td>1.44</td>
<td>9</td>
</tr>
<tr>
<td>SSIG 12 145</td>
<td>12 VOLT</td>
<td>122</td>
<td>132</td>
<td>135</td>
<td>140</td>
<td>145</td>
<td>1.74</td>
<td>9</td>
</tr>
</tbody>
</table>

## Online Renewable Energy Battery Sizing Calculator

Configure your renewable energy system with Trojan Batteries using the online renewable energy battery sizing calculator: [www.batterysizingcalculator.com](http://www.batterysizingcalculator.com)
## Lead-Acid Only

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

---

**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 * INCHES</th>
<th>WEIGHT # LBS. (kg)</th>
<th>HANDLES</th>
<th>INSTALLATION ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAGM 12 105</td>
<td>12 VOLT</td>
<td>94 105 109 111 113 1.26 15</td>
<td>12.80 (325) 6.81 (173) 9.34 (237) 67 (30)</td>
<td>Molded Plastic</td>
<td>Horizontal and Vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAGM 12 135</td>
<td>12 VOLT</td>
<td>131 135 136 137 137 1.62 15</td>
<td>12.96 (329) 7.06 (179) 10.96 (278) 83 (38)</td>
<td>Embedded</td>
<td>Horizontal and Vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAGM 12 205</td>
<td>12 VOLT</td>
<td>174 205 210 213 216 2.46 15</td>
<td>14.97 (380) 6.94 (176) 14.07 (357) 131 (59)</td>
<td>Braided Rope</td>
<td>Horizontal and Vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAGM 08 165</td>
<td>8 VOLT</td>
<td>145 165 168 171 174 1.32 15</td>
<td>10.30 (262) 7.06 (179) 10.73 (273) 70 (32)</td>
<td>Embedded</td>
<td>Horizontal and Vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAGM 06 220</td>
<td>6 VOLT</td>
<td>190 220 228 231 235 1.32 15</td>
<td>10.30 (262) 7.06 (179) 10.73 (273) 68 (31)</td>
<td>Embedded</td>
<td>Horizontal and Vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAGM 06 315</td>
<td>6 VOLT</td>
<td>276 315 326 331 335 1.89 15</td>
<td>11.66 (296) 6.94 (176) 13.99 (355) 95 (43)</td>
<td>Braided Rope</td>
<td>Horizontal and Vertical</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SAGM 06 375</td>
<td>6 VOLT</td>
<td>329 375 389 394 400 2.25 15</td>
<td>11.66 (296) 6.94 (176) 16.31 (414) 114 (52)</td>
<td>Braided Rope</td>
<td>Horizontal and Vertical</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**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>CAPACITY (A)</th>
<th>NOMINAL CAPACITY</th>
<th>ENERGY (kWh)</th>
<th>SHORT CIRCUIT CURRENT (A)</th>
<th>TERMINAL TYPE</th>
<th>DIMENSIONS * INCHES</th>
<th>WEIGHT # LBS. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>24-GEL</td>
<td>12 VOLT</td>
<td>66 77 85</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>27-GEL</td>
<td>12 VOLT</td>
<td>76 91 100</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
<tr>
<td>DIN</td>
<td>5SHP-GEL</td>
<td>12 VOLT</td>
<td>110 125 137</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
<tr>
<td>8D</td>
<td>8D-GEL</td>
<td>12 VOLT</td>
<td>188 225 265</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
<tr>
<td>GC8</td>
<td>8V-GEL</td>
<td>8 VOLT</td>
<td>116 140 160</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
<tr>
<td>GC2</td>
<td>6V-GEL</td>
<td>6 VOLT</td>
<td>154 189 198</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
<tr>
<td>DIN</td>
<td>TE35-GEL</td>
<td>6 VOLT</td>
<td>180 210 220</td>
<td>1.02 1.20 2.00</td>
<td>6.91 (173) 7.06 (179) 10.96 (278)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.73 (273) 83 (38)</td>
<td></td>
</tr>
</tbody>
</table>

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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>CAPACITY % AMP-HOURS (Ah)</th>
<th>ENERGY (kWh)</th>
<th>SHORT CIRCUIT CURRENT (A)</th>
<th>TERMINAL TYPE</th>
<th>DIMENSIONS * INCHES</th>
<th>WEIGHT # LBS. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>TR 12.8-92 LI-ION</td>
<td>12.8V</td>
<td>92 92 92.5 1.18</td>
<td>12.16 (307) 6.61 (168) 8.50 (216)</td>
<td>Fuse @ 400 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.16 (256) 6.61 (168) 8.50 (216)</td>
<td>27 (12)</td>
</tr>
<tr>
<td>27</td>
<td>TR 12.8-110 LI-ION</td>
<td>12.8V</td>
<td>110 110 111 1.42</td>
<td>12.07 (307) 6.57 (167) 8.63 (219)</td>
<td>Fuse @ 500 Amps</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.16 (256) 6.61 (168) 8.50 (216)</td>
<td>30 (14)</td>
</tr>
<tr>
<td>U1</td>
<td>TR 25.6-25 LI-ION</td>
<td>25.6V</td>
<td>25   25 25   0.64</td>
<td>7.76 (197) 5.20 (132) 6.74 (171)</td>
<td>Fuse @ 125 Amps</td>
<td>M8-1.0 Threaded Hole</td>
<td>7.76 (197) 5.20 (132) 6.74 (171)</td>
<td>12 (6)</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.