TROJAN'S INTELLIGENT LITHIUM ION BATTERY DELIVERS MORE RUNTIME, LIFETIME, AND PEACE OF MIND.
MORE RUNTIME, LIFETIME, AND PEACE OF MIND.

Designed and engineered in the USA, Trillium®, Trojan’s Intelligent Lithium battery, can be used in a variety of stationary and motive power applications. From its superior cell and battery design to its intelligent, built-in diagnostics, Trillium offers a range of advanced safety, environmental and electronic features not found in competitive products. With life expectancy well over 5,000 cycles, Trillium will deliver outstanding return on investment over time, plus the legendary quality Trojan Battery is known for.

COMMON APPLICATIONS
- DEEP-CYCLE LEAD-ACID REPLACEMENT
- GOLF CARS & LSEV
- MARINE AND RV
- UTILITY VEHICLES
- AERIAL WORK PLATFORMS
- SOLAR & STORAGE
- FLOOR MACHINE
- AND MORE...

TRILLIUM CYCLE LIFE CHART
This chart illustrates the expected cycle life as a function of DOD to 70% of initial capacity.

TR 12.8–92 Li-ION
- >5,000 CYCLES @ 80% DOD
- 12.8V NOMINAL VOLTAGE
- 92Ah CAPACITY

INTELLIGENCE FEATURES
- Microprocessor
- CAN Communications
- SOC Gauge
- Cell Balancing
- Battery Management System

TR 12.8–110 Li-ION
- >5,000 CYCLES @ 80% DOD
- 12.8V NOMINAL VOLTAGE
- 110Ah CAPACITY

INTELLIGENCE FEATURES
- Microprocessor
- SOC Gauge
- Cell Balancing
- Battery Management System
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 features 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 up to 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 Trillium is the highest quality product on the market—backed by Trojan’s extraordinary customer support.

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

INTELLIGENCE FEATURES

Cell Balancing

TR 25.6–25 Li–ION

>5,000 CYCLES @ 80% DOD
25.6V CHARGE VOLTAGE
25Ah CAPACITY

*TR 12.8-92 Li–Ion and TR 12.8-110 Li–Ion
**TR 12.8-92
**TRILLIUM PRODUCT, PHYSICAL, AND ELECTRICAL SPECIFICATION GUIDE**

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>VOLTAGE</th>
<th>NOMINAL CAPACITY</th>
<th>ENERGY (kWh)</th>
<th>SHORT CIRCUIT CURRENT (A)</th>
<th>BCI</th>
<th>TERMINAL TYPE</th>
<th>DIMENSIONS INCHES (mm)</th>
<th>WEIGHT LBS. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR 12.8-92 Li-Ion</td>
<td>12.8V</td>
<td>92Ah (1,180Wh)</td>
<td>92 92 25 1.18</td>
<td>Fused @ 400 Amps</td>
<td>Group 24</td>
<td>M8-1.25 Threaded Hole</td>
<td>10.16 (258) 6.61 (168) 8.50 (216)</td>
<td>27 (12)</td>
</tr>
<tr>
<td>TR 12.8-110 Li-Ion</td>
<td>12.8V</td>
<td>110Ah (1,400Wh)</td>
<td>110 110 111 1.42</td>
<td>Fused @ 500 Amps</td>
<td>Group 27</td>
<td>5/16&quot;-18 Stud and 1/4&quot;-20 Threaded Hole</td>
<td>12.07 (307) 6.57 (167) 8.63 (219)</td>
<td>30 (14)</td>
</tr>
<tr>
<td>TR 25.6-25 Li-Ion</td>
<td>25.6V</td>
<td>25Ah (640Wh)</td>
<td>25 25 25.5 0.64</td>
<td>Fused @ 125 Amps</td>
<td>Group U1</td>
<td>M6-1.0 Threaded Hole</td>
<td>7.76 (197) 5.20 (132) 6.74 (171)</td>
<td>12 (5)</td>
</tr>
</tbody>
</table>

**TRILLIUM OPERATIONAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>CONTINUOUS DISCHARGE CURRENT</th>
<th>PULSE DISCHARGE CURRENT @77°F (25°C)</th>
<th>COMM.</th>
<th>RESERVE CAPACITY @25°C</th>
<th>BMS PROTECTION</th>
<th>BMS FUNCTIONS</th>
<th>SAFETY SYSTEMS</th>
<th>SERIES CONN.</th>
<th>PARALLEL CONN.</th>
<th>DISCHARGE VOLTAGE CUTOFF</th>
<th>CHARGE VOLTAGE CUTOFF</th>
<th>OPERATING TEMP. RANGE</th>
<th>STORAGE TEMP. RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR 12.8-92 Li-Ion</td>
<td>92 Amps</td>
<td>250 Amps for 30 secs</td>
<td>CAN-Open</td>
<td>220 min</td>
<td>Cell-Level Voltage, Temp, Over Voltage, Under Voltage, Over-Current</td>
<td>Cell Balancing, State of Charge</td>
<td>Contractor; Fuse; BMS</td>
<td>Up to 4S (35.1V)</td>
<td>Up to 20P</td>
<td>10.0V ± 5% for 5 sec</td>
<td>15.6V ± 5% for 5 sec</td>
<td>-4°F to 140°F</td>
<td>-40°F to 140°F</td>
</tr>
<tr>
<td>TR 12.8-110 Li-Ion</td>
<td>110 Amps</td>
<td>250 Amps for 30 secs</td>
<td>N/A</td>
<td>260 min</td>
<td>Cell-Level Voltage, Temp, Over Voltage, Under Voltage, Over-Current</td>
<td>Cell Balancing, State of Charge</td>
<td>Contractor; Fuse; BMS</td>
<td>Up to 4S (35.1V)</td>
<td>N/A</td>
<td>9.2V ± 5% for 5 sec</td>
<td>15.2V ± 5% for 5 sec</td>
<td>-4°F to 140°F</td>
<td>-40°F to 140°F</td>
</tr>
<tr>
<td>TR 25.6-25 Li-Ion</td>
<td>25 Amps</td>
<td>70 Amps instantaneous</td>
<td>N/A</td>
<td>60 min</td>
<td>Cell-Level Voltage, Temp, Current</td>
<td>Cell Balancing</td>
<td>MOSFETs, Fuse, Protection Control Module (PCM)</td>
<td>Up to 4S (35.1V)</td>
<td>Up to 20P</td>
<td>16.0V ± 5% for 5 sec</td>
<td>30.4V ± 5% for 5 sec</td>
<td>-4°F to 140°F</td>
<td>-40°F to 140°F</td>
</tr>
</tbody>
</table>

*Maximum charge current reduced with temperature. See Datasheet or User’s Guide.

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12380 CLARK STREET, SANTA FE SPRINGS, CA 90670

**DO NOT MIX WITH LEAD-ACID BATTERIES WHEN RECYCLING.**

*TR 12.8-92 Li-Ion and TR 12.8-110 Li-Ion

**TR 12.8-92