

The Importance of Testing PV Batteries to the IEC 61427 Standard

The International Electrotechnical Commission's (IEC) standard 61427 provides performance criteria that all batteries for PV applications can and should be measured against. IEC testing illustrates that Trojan's Industrial and Premium batteries can withstand extreme operating conditions where continuous deep discharge, recharge, and Partial State of Charge is typical.

Service Life Expectancy per IEC Standard 61427 Test Results



TROJAN BATTERY
Premium Line



TROJAN BATTERY
Industrial Line



1-800-423-6569
www.trojanbattery.com

Watch and Learn more about Smart Carbon
by viewing our Webinar.
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Trojan's
Intelligent Solution for **PSOC**
Partial State of Charge Applications

TROJAN BATTERY COMPANY, LLC
12380 Clark St, Santa Fe Springs, CA 90670, USA



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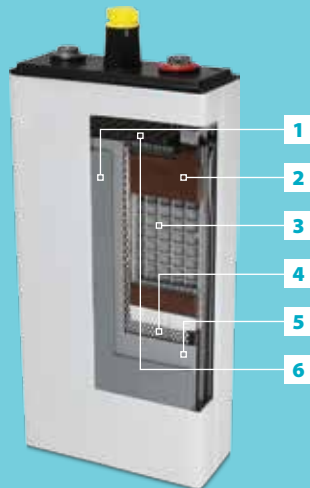
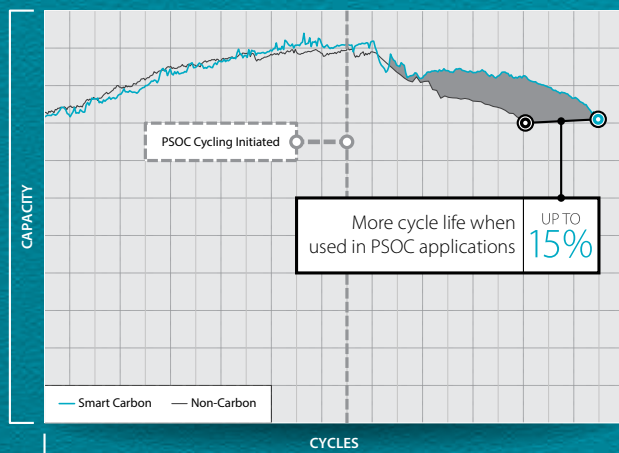
To address the impact of Partial State of Charge (PSOC) on deep-cycle batteries in renewable energy (RE), Trojan Battery has now included Smart Carbon™ as a standard feature in its Industrial and Premium flooded battery lines.

Operating at PSOC on a regular basis can quickly diminish the overall life of a battery, which results in frequent and costly battery replacements. To address the issue of PSOC, Trojan is the first manufacturer to include a carbon additive as a standard feature to enhance battery life and performance.

Smart Carbon provides:

- A decrease in the rate of sulfation in PSOC conditions
- Improved charge acceptance
- Faster recharge in PSOC applications
- High energy efficiency

SMART CARBON CYCLE LIFE in Partial State of Charge (PSOC) Applications



INDUSTRIAL LINE 2800 CYCLES @ 50% DOD - 8 YEAR WARRANTY

The Industrial Line is engineered specifically to support renewable energy systems with large daily loads where the batteries are cycled regularly.

Smart Carbon

Increases the electrochemically active surface area which provides improved charge acceptance and faster recharge in applications where the batteries are under charged 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.

	IND9-6V	IND13-6V	IND17-6V	IND23-4V	IND29-4V	IND27-2V	IND33-2V
Capacity Amp-Hours (AH)	6V	6V	6V	4V	4V	2V	2V
10-Hr Rate	414	616	820	1129	1448	1368	1682
20-Hr Rate	464	695	925	1270	1618	1520	1849
100-Hr Rate	601	902	1202	1654	2105	1954	2405
Weight lbs. (kg)	220 (100)	315 (143)	415 (188)	370 (168)	465 (211)	228 (104)	278 (125)

PREMIUM LINE 1600 CYCLES @ 50% DOD - 5 YEAR WARRANTY

Premium batteries are optimized for Renewable Energy applications which operate under challenging conditions such as fluctuating or extreme temperatures, remote locations and the intermittent nature of solar and wind power generation.

Smart Carbon

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

Alpha Plus® Paste with T2 Technology™

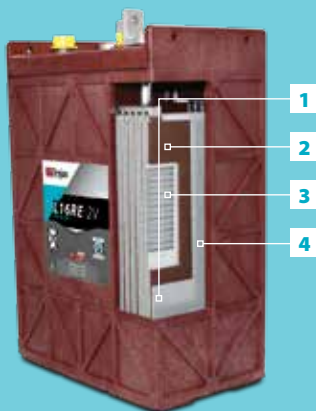
Optimizes porosity development in the active material resulting in sustained battery performance over a longer period of time.

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.



	T-105 RE	L16RE-A	L16RE-B	L16RE-2V
Capacity Amp-Hours (AH)	6V	6V	6V	2V
10-Hr Rate	207	299	340	1021
20-Hr Rate	225	325	370	1110
100-Hr Rate	250	360	410	1235
WEIGHT lbs. (kg)	67 (30)	115 (52)	118 (54)	119 (54)

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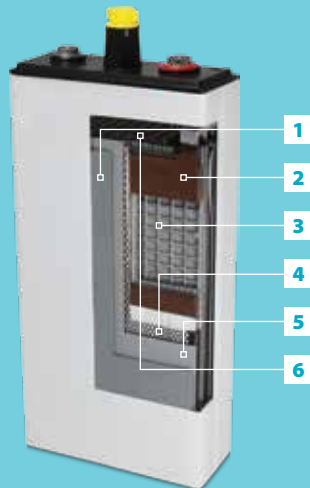
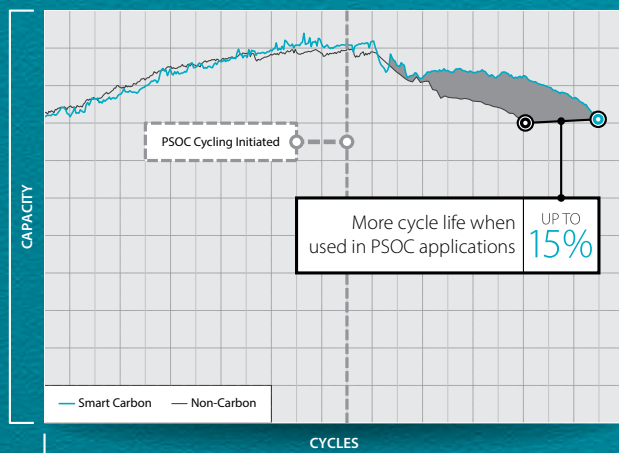
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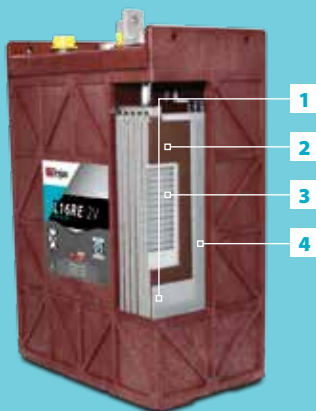
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