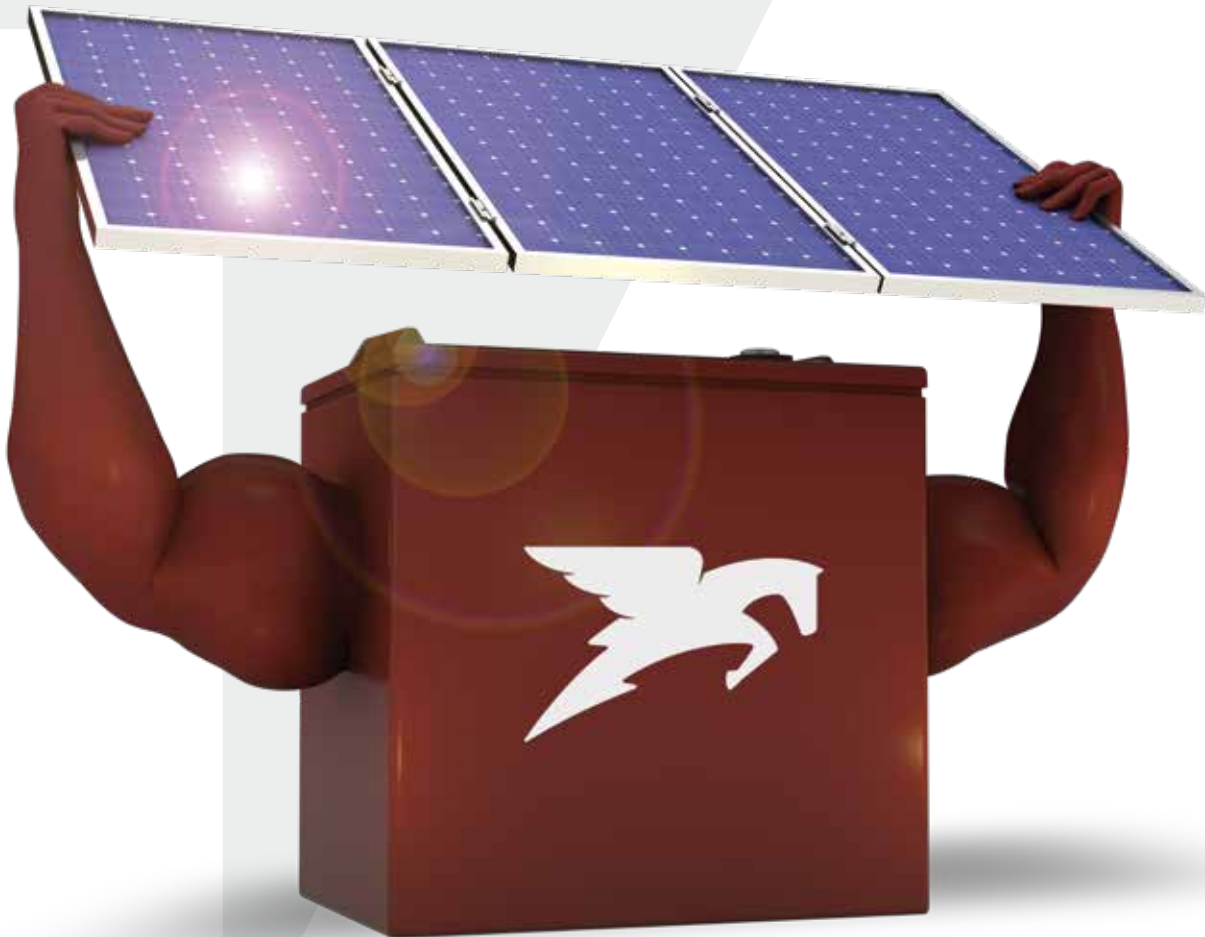




**TROJAN BATTERY:  
THE FUTURE OF ENERGY  
STORAGE SOLUTIONS**

# SOLAR



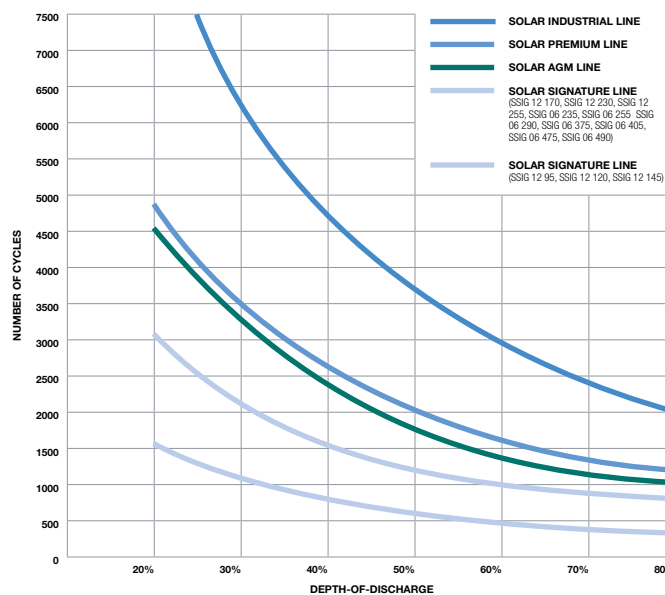
# LEGENDARY QUALITY FOR THE SOLAR INDUSTRY.

We powered the past. Now we look to energize the future with innovative solar solutions. Legendary quality reimaged for tomorrow's energy demands.

We're Trojan Battery. We're **CHARGING FORWARD.**

## APPLICATIONS

- ◆ REMOTE MICRO-GRIDS
- ◆ OFF-GRID RESIDENTIAL
- ◆ GRID-TIED RESIDENTIAL AND COMMERCIAL
- ◆ SOLAR STREET SIGNS/LIGHTS
- ◆ OIL & GAS
- ◆ REMOTE TELECOM
- ◆ RURAL ELECTRIFICATION



## SOLAR LINE CYCLE LIFE CHART

This chart illustrates the cycle life ratings for Trojan's Solar Line of deep-cycle batteries for renewable energy applications.



The inclusion of **Smart Carbon™** to Trojan's Solar Industrial and Solar Premium advanced lead acid lines provides:

- A decrease in the rate of sulfation in Partial State of Charge (PSOC) conditions
- Improved charge acceptance
- Faster recharge in PSOC applications
- High energy efficiency



## SOLAR INDUSTRIAL

3,600 CYCLES @ 50% DOD  
610-2450 Ah @ 100Hr



### 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

## ADVANCED TECHNOLOGY

TECHNOLOGY	SOLAR INDUSTRIAL	SOLAR PREMIUM	SOLAR SIGNATURE	SOLAR AGM
Smart Carbon™	◆	◆		
Alpha Plus® Paste with T2 Technology	◆	◆	◆	◆
DuraGrid™ Technology	◆	◆		◆
Trojan Grid Technology			◆	
Reinforced Protection Wrap	◆	◆		
Maxguard® XL Separator	◆	◆		
Premium AGM Separator				◆
Maxguard® T2 Separator			◆	
Moss Shield	◆	◆		
Maximum Flame Arrestors	◆	◆	◆	◆
Advanced Lead Acid	◆	◆		◆
Single-Point Watering Kit	◆	◆	◆	
Koroseal Protective Wrapping	◆			
Overall Rugged Construction	◆	◆	◆	◆

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

## 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

# IEC 61427 STANDARD

Secondary cells and batteries for renewable energy storage



17 YEARS

TROJAN BATTERY  
SOLAR INDUSTRIAL

8+ YEARS

TROJAN BATTERY  
SOLAR PREMIUM

8+ YEARS

TROJAN BATTERY  
SOLAR AGM

## IMPORTANCE OF TESTING PV BATTERIES TO THE IEC 61427 STANDARD

Life expectancy of PV batteries has been difficult to quantify – until now. The International Electrotechnical Commission's (IEC) standard 61427 test provides performance criteria that all batteries for PV applications should be measured against. It offers a common, internationally accepted platform to compare and contrast batteries from different manufacturers.

## 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 AGM



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



MAINTENANCE-FREE

### KEY FEATURES

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

# SOLAR PRODUCT SPECIFICATION GUIDE

MODEL NAME	VOLTAGE	CAPACITY <sup>A</sup> AMP-HOURS (Ah)					ENERGY (kWh)	ENERGY <sup>E</sup> (kWh)	DEFAULT TERMINAL	DIMENSIONS <sup>B</sup> INCHES (mm)			WEIGHT <sup>D</sup> LBS. (kg)
		10-HR RATE	20-HR RATE	48-HR RATE	72-HR RATE	100-HR RATE	100-HR RATE	48V SYSTEM 100-HR RATE		LENGTH	WIDTH	HEIGHT <sup>C</sup>	
<b>SOLAR INDUSTRIAL LINE - DEEP-CYCLE FLOODED BATTERIES WITH SMART CARBON™ - 3,600 CYCLES @ 50% DOD</b>													
SIND 06 610	6 Volt	421	472	540	578	610	3.66	29.28	14	15.33 (389)	10.22 (260)	24.01 (610)	220 (100)
SIND 06 920	6 Volt	627	708	813	870	920	5.52	44.16	14	22.34 (567)	10.30 (262)	24.01 (610)	315 (143)
SIND 06 1225	6 Volt	835	942	1083	1159	1225	7.35	58.80	14	27.13 (689)	10.44 (265)	24.01 (610)	415 (188)
SIND 04 1685	4 Volt	1149	1293	1489	1594	1685	6.74	80.88	14	22.34 (567)	10.30 (262)	24.01 (610)	367 (167)
SIND 04 2145	4 Volt	1474	1647	1896	2030	2145	8.58	102.96	14	27.22 (691)	10.44 (265)	24.01 (610)	465 (211)
SIND 02 1990	2 Volt	1393	1547	1771	1889	1990	3.98	95.52	14	15.33 (389)	10.22 (260)	24.01 (610)	235 (107)
SIND 02 2450	2 Volt	1712	1882	2166	2318	2450	4.90	117.60	14	17.33 (440)	10.22 (260)	24.01 (610)	278 (125)
<b>SOLAR PREMIUM LINE - DEEP-CYCLE FLOODED BATTERIES WITH SMART CARBON™ - 1,900 CYCLES @ 50% DOD</b>													
SPRE 12 225*	12 Volt	179	204	212	216	225	2.70	10.80	6	14.97 (380)	6.91 (176)	14.71 (374)	132 (60)
SPRE 06 255	6 Volt	211	229	244	249	255	1.53	12.24	16	10.30 (262)	7.13 (181)	11.74 (298)	67 (30)
SPRE 06 415*	6 Volt	346	377	401	410	415	2.50	19.92	5	11.66 (296)	6.94 (1.76)	17.55 (446)	118 (54)
SPRE 02 1255*	2 Volt	1039	1130	1203	1232	1255	2.51	60.24	5	11.66 (296)	6.94 (176)	17.55 (446)	119 (54)
<b>SOLAR SIGNATURE LINE - DEEP-CYCLE FLOODED BATTERIES - 1,200 CYCLES @ 50% DOD</b>													
SSIG 12 170	12 Volt	136	153	157	164	170	2.04	8.16	2	13.95 (354)	7.13 (181)	10.71 (272)	84 (38)
SSIG 12 230*	12 Volt	192	209	214	223	230	2.76	11.04	6	14.97 (380)	6.91 (176)	14.67 (373)	114 (52)
SSIG 12 255*	12 Volt	211	229	237	247	255	3.06	12.24	6	14.97 (380)	6.91 (176)	14.67 (373)	123 (56)
SSIG 06 235	6 Volt	196	214	220	228	235	1.42	11.28	1	10.30 (262)	7.13 (181)	10.74 (273)	58 (26)
SSIG 06 255	6 Volt	211	229	237	247	255	1.53	12.24	1	10.30 (262)	7.13 (181)	10.74 (273)	62 (28)
SSIG 06 290	6 Volt	243	265	271	281	290	1.74	13.92	1	10.30 (262)	7.13 (181)	11.48 (292)	72 (33)
SSIG 06 375*	6 Volt	309	336	348	363	375	2.25	18.00	6	11.66 (296)	6.94 (176)	14.37 (365)	96 (44)
SSIG 06 405*	6 Volt	337	366	376	392	405	2.43	19.44	6	11.66 (296)	6.94 (176)	14.37 (365)	98 (44)
SSIG 06 475*	6 Volt	393	428	441	459	475	2.85	22.80	5	11.66 (296)	6.94 (176)	17.55 (446)	114 (52)
SSIG 06 490*	6 Volt	407	443	455	474	490	2.94	23.52	5	11.66 (296)	6.94 (176)	17.55 (446)	125 (57)
<b>SOLAR SIGNATURE LINE - DEEP-CYCLE FLOODED BATTERIES - 600 CYCLES @ 50% DOD</b>													
SSIG 12 95	12 Volt	79	87	88	92	95	1.14	4.56	7	10.92 (277)	6.62 (168)	9.25 (235)	47 (21)
SSIG 12 120	12 Volt	99	107	111	116	120	1.44	5.76	9	12.84 (326)	6.60 (168)	9.74 (247)	55 (25)
SSIG 12 145	12 Volt	122	132	135	140	145	1.74	6.96	9	13.94 (354)	6.75 (171)	10.09 (256)	66 (30)
<b>SOLAR AGM LINE - DEEP-CYCLE AGM BATTERIES - 1,700 CYCLES @ 50% DOD</b>													
MODEL NAME	VOLTAGE	CAPACITY <sup>A</sup> AMP-HOURS (Ah)					ENERGY (kWh)	ENERGY <sup>E</sup> (kWh) <sup>F</sup>	DEFAULT TERMINAL	DIMENSIONS <sup>B</sup> INCHES (mm)			WEIGHT <sup>D</sup> LBS. (kg)
		10-HR RATE	20-HR RATE	48-HR RATE	72-HR RATE	100-HR RATE	20-HR RATE	48V SYSTEM 20-HR RATE		LENGTH	WIDTH	HEIGHT <sup>C</sup>	
SAGM 12 105	12 Volt	94	105	109	11	113	1.26	5.04	5, 15	12.80 (325)	6.81 (173)	9.34 (237)	67 (30)
SAGM 12 135	12 Volt	131	135	136	137	137	1.62	6.48	5, 15	12.96 (329)	7.06 (179)	10.96 (278)	83 (38)
SAGM 12 205	12 Volt	174	205	210	213	216	2.46	9.84	5, 15	14.97 (380)	6.94 (176)	14.07 (357)	131 (59)
SAGM 08 165	8 Volt	145	165	168	171	174	1.32	7.92	5, 15	10.30 (262)	7.06 (179)	10.73 (273)	70 (32)
SAGM 06 220	6 Volt	190	220	228	231	235	1.32	10.56	5, 15	10.30 (262)	7.06 (179)	10.73 (273)	68 (31)
SAGM 06 315	6 Volt	278	315	326	331	335	1.89	15.12	5, 15	11.66 (296)	6.94 (176)	13.99 (355)	95 (43)
SAGM 06 375	6 Volt	329	375	389	394	400	2.25	18.00	5, 15	11.66 (296)	6.94 (176)	16.31 (414)	114 (52)

\*Polyon™ Case



- A. The amount of amp-hours (Ah) for Solar Line batteries 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. Weight may vary.
- E. Based on system in series configuration.

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COMPLIES WITH BCIS-21 (D07/ATA) - NOT RESTRICTED FOR SURFACE TRANSPORT - CLASSIFIED AS NON-HAZARDOUS MATERIAL PER DOT 49 CFR 173.159 Applies to Solar AGM Batteries Only