

# SOLAR

TRUE DEEP-CYCLE BATTERIES



*90+ Years of True Deep-Cycle Experience and Expertise*



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TRUE DEEP-CYCLE BATTERIES

## Designed for Best Value in Solar + Storage Applications

- Remote Micro-Grids
- Solar Street Signs/Lights
- Off-Grid Residential
- Leisure/Tiny House
- Oil & Gas
- Grid-Tied Solar Home Systems
- Residential & Commercial Backup
- Telecom



**SOLAR INDUSTRIAL**  
3,600 Cycles  
@ 50% DOD  
610-2450 Ah @ C100

**SOLAR PREMIUM**  
1,900 Cycles  
@ 50% DOD  
225-1255 Ah @ C100

**SOLAR SIGNATURE**  
600 – 1,200 Cycles  
@ 50% DOD  
95-490 Ah @ C100

**SOLAR AGM**  
1,700 Cycles  
@ 50% DOD  
135-375 Ah @ C20

### 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.



### SOLAR PREMIUM

Trojan Battery's Solar Premium Line of flooded deep-cycle batteries is specifically designed 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 which is why our Solar Premium Line is tested to IEC standards.



### SOLAR SIGNATURE

The Solar Signature Line of deep-cycle flooded batteries is the flagship of Trojan's product portfolio. 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.

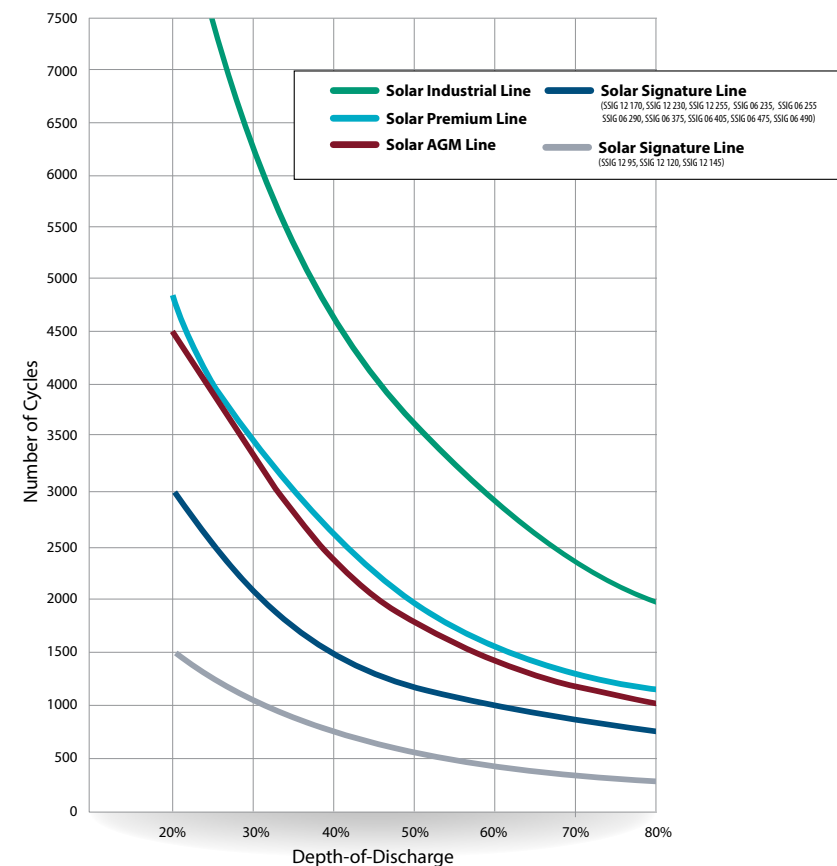


### SOLAR AGM

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 storage, 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 and unreliable grid applications.



### 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.

## IEC 61427 STANDARD

Secondary cells and batteries for renewable energy storage

17 Years

Trojan Battery Solar Industrial Line

8+ Years

Trojan Battery Solar Premium Line

8 Years

Trojan Battery Solar AGM

5 Years

Trojan Battery Solar Signature

The IEC standard 61427 test provides performance criteria that all batteries for PV applications should be measured against.



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 PSOC conditions
- Improved charge acceptance
- Faster recharge in PSOC applications
- High energy efficiency

*Clean energy for life™*

# RE Product Specification Guide

MODEL NAME	VOLTAGE	CAPACITY <sup>A</sup> Amp-Hours (Ah)					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	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	14	15.33 (389)	10.22 (260)	24.01 (610)	220 (100)	
SIND 06 920	6 VOLT	627	708	813	870	920	5.52	14	22.34 (567)	10.30 (262)	24.01 (610)	315 (143)	
SIND 06 1225	6 VOLT	835	942	1083	1159	1225	7.35	14	27.13 (689)	10.44 (265)	24.01 (610)	415 (188)	
SIND 04 1685	4 VOLT	1149	1293	1489	1594	1685	6.74	14	22.34 (567)	10.30 (262)	24.01 (610)	367 (167)	
SIND 04 2145	4 VOLT	1474	1647	1896	2030	2145	8.58	14	27.22 (691)	10.44 (265)	24.01 (610)	465 (211)	
SIND 02 1990	2 VOLT	1393	1547	1771	1889	1990	3.98	14	15.33 (389)	10.22 (260)	24.01 (610)	235 (107)	
SIND 02 2450	2 VOLT	1712	1882	2166	2318	2450	4.90	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	6	14.97 (380)	6.91 (176)	14.71 (374)	132 (60)	
SPRE 06 255	6 VOLT	211	229	244	249	255	1.53	16	10.30 (262)	7.13 (181)	11.74 (298)	67 (30)	
SPRE 06 415*	6 VOLT	346	377	401	410	415	2.50	5	11.66 (296)	6.94 (176)	17.55 (446)	118 (54)	
SPRE 02 1255*	2 VOLT	1039	1130	1203	1232	1255	2.51	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	2	13.95 (354)	7.13 (181)	10.71 (272)	84 (38)	
SSIG 12 230*	12 VOLT	192	209	214	223	230	2.76	6	14.97 (380)	6.91 (176)	14.67 (373)	114 (52)	
SSIG 12 255*	12 VOLT	211	229	237	247	255	3.06	6	14.97 (380)	6.91 (176)	14.67 (373)	123 (56)	
SSIG 06 235	6 VOLT	196	214	220	228	235	1.42	1	10.30 (262)	7.13 (181)	10.74 (273)	58 (26)	
SSIG 06 255	6 VOLT	211	229	237	247	255	1.53	1	10.30 (262)	7.13 (181)	10.74 (273)	62 (28)	
SSIG 06 290	6 VOLT	243	265	271	281	290	1.74	1	10.30 (262)	7.13 (181)	11.48 (292)	72 (33)	
SSIG 06 375*	6 VOLT	309	336	348	363	375	2.25	6	11.66 (296)	6.94 (176)	14.37 (365)	96 (44)	
SSIG 06 405*	6 VOLT	337	366	376	392	405	2.43	6	11.66 (296)	6.94 (176)	14.37 (365)	98 (44)	
SSIG 06 475*	6 VOLT	393	428	441	459	475	2.85	5	11.66 (296)	6.94 (176)	17.55 (446)	114 (52)	
SSIG 06 490*	6 VOLT	407	443	455	474	490	2.94	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	7	10.92 (277)	6.62 (168)	9.25 (235)	47 (21)	
SSIG 12 120	12 VOLT	99	107	111	116	120	1.44	9	12.84 (326)	6.60 (168)	9.74 (247)	55 (25)	
SSIG 12 145	12 VOLT	122	132	135	140	145	1.74	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 <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	20-Hr Rate	100-Hr Rate		Length	Width	Height <sup>C</sup>	
SAGM 12 105	12 VOLT	94	105	109	11	113	1.26	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	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	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	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	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	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	5, 15	11.66 (296)	6.94 (176)	16.31 (414)	114 (52)	

## Terminal Configurations



\* 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. The Energy (kWh) for the Solar AGM batteries are based on the 20-Hr Rate.



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COMPLIES WITH  
 BCIS-21 (DOT/IATA)  
 - NOT RESTRICTED FOR  
 SURFACE TRANSPORT  
 - CLASSIFIED AS NON-  
 HAZARDOUS MATERIAL  
 PER DOT 49 CFR 173.159

Applies to Solar AGM  
 Batteries Only

