



## **PRODUCT SPECIFICATION GUIDE**

### **A Comprehensive Guide That Makes Selecting Your Battery Easier.**

Since 1925, Trojan Battery Company has been known for delivering the world's most trusted deep cycle batteries with superior engineering and innovative product design. We offer this Product Specification Guide to our customers as an essential battery selection tool, featuring:

- **Helpful tips to determine which Trojan Battery is right for your application**
- **A step-by-step guide with diagrams for battery installation and configuration**
- **An easy-to-use specification chart featuring Trojan Battery's complete product line**
- **Terminal configuration photos**

We also offer outstanding technical support provided by full-time application engineers.  
*Trojan batteries are available worldwide through Trojan's Master Distributor Network.*

Call 800-423-6569 or +1-562-236-3000 for more information  
or visit us at [www.trojanbattery.com](http://www.trojanbattery.com)

## Before getting started:

- Make sure you know your system voltage, battery compartment size (length, width and height) and your energy needs
- Determine whether you want to use a FLOODED/WET, GEL or AGM battery

You are now ready to use the Product Specification Guide to choose the right battery and configuration.

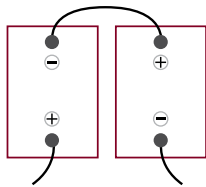
## Step 1: Determine your battery voltage and how many to use

**1-1** Based on your system voltage, you must first decide which battery and how many to use in order to meet your requirements. For example, you may connect a series of eight 6V batteries, six 8V batteries or four 12V batteries for a 48 volt system. The size of your battery compartment, your performance requirements and costs may limit your options.

**1-2** Make sure there is enough space between batteries to allow for minor battery expansion that occurs during use and proper airflow to keep battery temperature down in hot environments.

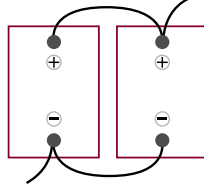
**TIP:** Connecting batteries in series does not increase the capacity of the batteries; it simply increases the overall voltage to meet your system requirements. Once your voltage requirements are met, if space allows you can double the batteries in a parallel connection—thereby doubling your battery capacity. See below diagram.

**Series Connect**



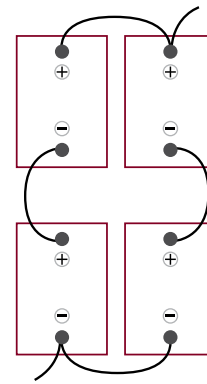
To increase voltage, connect batteries in series.

**Parallel Connect**



To increase amp-hour capacity, connect batteries in parallel.

**Series/Parallel Connect**



To increase both voltage and amp-hour capacity, connect batteries in series/parallel.

## Step 2: Choose your best battery model

**2-1** When choosing your battery model, first consider your battery compartment space as this may limit your options. However, within your size restrictions you may have several battery options to choose from. For example, you can use a T-605, T-105 or T-125 in the same space as they are the exact same physical size. The difference between these batteries is the amount of energy they have to offer.

**2-2** Next consider your energy needs. If replacing an existing battery, use it as a reference point. If your old battery provided enough energy, it can be replaced with a similar capacity battery. If you need more energy you can size up, or if you need less you can size down.

**TIP:** If you do not know what battery to use, contact your equipment manufacturer for their recommended battery specification. Trojan Battery offers outstanding technical support provided by full-time applications engineers to help you select your ideal batteries.

## Step 3: Select your best terminal

**3-1** Finally determine which terminal option best meets your needs based on the type of cable connections you plan to use. Look for the terminal(s) available for the battery you selected (see photos on the back page of this guide) to make your selection.

**TIP:** Make sure you use the proper cable size when connecting your batteries so that you do not overheat your connections. For information regarding correct wire sizes you can refer to the National Electric Code, Trojan Battery User's Guide, or contact Trojan's live technical support.

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes			CAPACITY <sup>B</sup> Amp-Hours (AH)			TERMINAL TYPE (See Back Cover)	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
		@25 Amps	@56 Amps	@75 Amps	5 Hr Rate	20 Hr Rate	100 Hr Rate		L	W	H <sup>F</sup>	
<b>2 VOLT DEEP CYCLE BATTERY</b>												
903	L16RE-2V*	-	-	-	-	1110	1235	9	11 5/8 (295)	7 (178)	17 11/16 (450)	119 (54)
<b>6 VOLT DEEP CYCLE BATTERIES</b>												
GC2	T-605	383	-	105	175	210	-	1,3,4,5	10 3/8 (264)	7 1/8 (181)	10 7/8 (276)	58 (26)
GC2	T-105	447	-	115	185	225	-	1,3,4,5,9	10 3/8 (264)	7 1/8 (181)	10 7/8 (276)	62 (28)
GC2H	T105-RE*	-	-	-	-	225	250	9	10 3/8 (264)	7 1/8 (181)	11 3/4 (299)	67 (30)
GC2	T-105 Plus	447	-	115	185	225	-	1,2,4	10 3/8 (264)	7 1/8 (181)	10 11/16 (272)	62 (28)
GC2	T-125	488	-	132	195	240	-	1,3,4,5,9	10 3/8 (264)	7 1/8 (181)	10 7/8 (276)	66 (30)
GC2	T-125 Plus	488	-	132	195	240	-	1,2,4	10 3/8 (264)	7 1/8 (181)	10 11/16 (272)	66 (30)
GC2H	T-145	530	-	145	215	260	-	1,3,4,5	10 3/8 (264)	7 1/8 (181)	11 5/8 (295)	72 (33)
GC2H	T-145 Plus	530	-	145	215	260	-	1,2,4	10 3/8 (264)	7 1/8 (181)	11 1/2 (292)	72 (33)
DIN	TE35	500	-	135	200	245	-	4	9 5/8 (244)	7 1/2 (191)	10 7/8 (276)	68 (31)
901	J250G	475	-	130	195	235	-	5	11 1/2 (292)	7 (178)	11 7/8 (302)	67 (30)
901	J250P	540	-	135	215	250	-	6	11 11/16 (297)	7 (178)	11 1/2 (292)	72 (33)
902	J305E-AC	645	-	160	250	305	-	5	12 1/4 (311)	7 (178)	14 3/8 (365)	83 (38)
902	J305G-AC	678	-	175	258	315	-	5	12 1/4 (311)	7 (178)	14 3/8 (365)	88 (40)
902	J305P-AC	711	-	195	271	330	-	6	11 5/8 (295)	7 (178)	14 3/8 (365)	96 (44)
902	J305H-AC	781	-	215	295	360	-	6	11 5/8 (295)	7 (178)	14 3/8 (365)	98 (45)
903	L16E-AC	766	-	185	303	370	-	5	12 1/4 (311)	7 (178)	17 (432)	100 (46)
903	L16G-AC	789	-	200	320	390	-	5	12 1/4 (311)	7 (178)	17 (432)	107 (49)
903	L16P-AC	850	-	220	344	420	-	6	11 5/8 (295)	7 (178)	16 3/4 (424)	114 (52)
903	L16H-AC	935	-	245	357	435	-	6	11 5/8 (295)	7 (178)	16 3/4 (424)	125 (57)
903	L16RE-A*	-	-	-	-	325	360	9	11 5/8 (295)	7 (178)	17 11/16 (450)	115 (52)
903	L16RE-B*	-	-	-	-	370	410	9	11 5/8 (295)	7 (178)	17 11/16 (450)	118 (54)
<b>8 VOLT DEEP CYCLE BATTERIES</b>												
GC8	T-860	-	90	-	125	150	-	1	10 3/8 (264)	7 1/8 (181)	10 7/8 (276)	58 (26)
GC8	T-875	295	117	-	145	170	-	1,3,4	10 3/8 (264)	7 1/8 (181)	10 7/8 (276)	63 (29)
GC8	T-890	340	132	-	155	190	-	1,3,4	10 3/8 (264)	7 1/8 (181)	10 7/8 (276)	69 (31)
<b>12 VOLT DEEP CYCLE BATTERIES</b>												
24	24TMX	140	-	36	70	85	-	3,9	11 1/4 (286)	6 3/4 (171)	9 3/4 (248)	47 (21)
27	27TMX	175	-	45	85	105	-	3,9	12 3/4 (324)	6 3/4 (171)	9 3/4 (248)	55 (25)
27	27TMH	200	-	51	95	115	-	3,4,5,9	12 3/4 (324)	6 3/4 (171)	9 3/4 (248)	61 (28)
30H	30XHS	225	-	57	105	130	-	3,4,5,9	13 15/16 (355)	6 3/4 (171)	10 1/16 (256)	66 (30)
30H	31XHS	225	-	57	105	130	-	7	13 (330)	6 3/4 (171)	9 1/2 (241)	67 (30)
N/A	T-1260 Plus	260	90	60	113	140	-	1,2,4	12 7/8 (327)	7 1/8 (181)	10 11/16 (272)	78 (35)
N/A	T-1275	280	102	-	120	150	-	1	12 7/8 (327)	7 1/8 (181)	10 7/8 (276)	82 (37)
N/A	T-1275 Plus	280	102	-	120	150	-	1,2,4	12 7/8 (327)	7 1/8 (181)	10 11/16 (272)	82 (37)
N/A	J150	280	-	70	120	150	-	2	13 13/16 (351)	7 1/8 (181)	11 1/8 (283)	84 (38)
N/A	J150 Plus	280	-	70	120	150	-	1,2,4	13 13/16 (351)	7 1/8 (181)	11 1/8 (283)	84 (38)
921	J185E-AC	312	-	82	144	175	-	5	15 1/2 (394)	7 (178)	14 5/8 (371)	102 (46)
921	J185G-AC	324	-	93	152	185	-	5	15 1/2 (394)	7 (178)	14 5/8 (371)	106 (48)
921	J185P-AC	380	-	104	168	205	-	6	15 (381)	7 (178)	14 5/8 (371)	114 (52)
921	J185H-AC	440	-	121	185	225	-	6	15 (381)	7 (178)	14 5/8 (371)	128 (58)
N/A	DC-500ML	1050	-	272	361	450	-	4,9	19 1/4 (489)	10 5/8 (270)	16 3/4 (425)	332 (151)
<b>36 VOLT DEEP CYCLE BATTERIES</b>												
N/A	18DC-500ML	1050	-	272	361	450	-	10	35 1/4 (895)	19 1/8 (486)	16 3/4 (425)	986 (447)






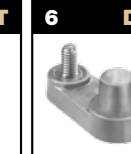
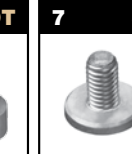



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BCI GROUP SIZE	TYPE	VOLTAGE	CAPACITY <sup>A</sup>		CAPACITY <sup>B</sup>		TERMINAL TYPE (See Back Cover)	DIMENSIONS <sup>C</sup>			WEIGHT lbs. (kg)
			Minutes	@25 Amps	5 Hr Rate	20 Hr Rate		L	W	H <sup>F</sup>	
<b>DEEP-CYCLE GEL BATTERIES</b>											
GC2	6V-GEL	6 Volt	394	154	189	5	10 1/4(260)	7 1/8 (181)	10 7/8 (276)	68 (31)	
24	24-GEL	12 Volt	147	66	77	5,6	10 7/8 (276)	6 3/4 (171)	9 5/16 (236)	52 (24)	
27	27-GEL	12 Volt	179	76	91	5	12 3/4 (324)	6 3/4 (171)	9 1/4 (234)	63 (29)	
31	31-GEL	12 Volt	200	85	102	5	12 15/16 (329)	6 3/4 (171)	9 5/8 (245)	69 (31)	

BCI GROUP SIZE	TYPE	VOLTAGE	CAPACITY <sup>A</sup>		CRANKING PERFORMANCE		CAPACITY <sup>B</sup>		TERMINAL TYPE (See Below)	DIMENSIONS <sup>C</sup>			WEIGHT lbs. (kg)
			Minutes	@25 Amps	@75 Amps	CCA <sup>D</sup> @0°F	CA <sup>E</sup> @32°F	5 Hr Rate		20 Hr Rate	L	W	
<b>MARINE/RV DEEP CYCLE BATTERIES</b>													
24	SCS150	12 Volt	150	36	530	650	80	100	8	11 1/4 (286)	6 3/4 (171)	9 3/4 (248)	50 (23)
27	SCS200	12 Volt	200	52	620	760	95	115	8	12 3/4 (324)	6 3/4 (171)	9 3/4 (248)	60 (27)
30H	SCS225	12 Volt	225	57	665	820	105	130	8	13 15/16 (355)	6 3/4 (171)	9 7/8 (251)	66 (30)
<b>CYCLING AGM BATTERIES</b>													
24	24-AGM	12 Volt	137	-	500	600	67	76	6	10 7/9 (274)	6 5/6 (173)	8 2/3 (220)	54 (24)
27	27-AGM	12 Volt	158	-	550	660	77	89	6	12 5/9 (319)	6 5/6 (173)	8 5/7 (221)	64 (29)
31	31-AGM**	12 Volt	177	-	600	720	82	100	6	13 3/7 (341)	6 4/5 (173)	9 2/11 (233)	69 (31)
31	OverDrive™ AGM 31	12 Volt	180	-	600	720	84	102	7	13 3/7 (341)	6 4/5 (173)	9 2/9 (234)	69 (31)
<b>DUAL PURPOSE AGM BATTERIES</b>													
GC2	6V-AGM	6 Volt	385	-	1100	1400	154	200	6	10 1/4 (260)	7 1/8 (181)	10 3/4 (274)	65 (29)
8D	8D-AGM	12 Volt	460	-	1450	1850	179	230	6	20 1/2 (521)	10 9/16 (269)	9 3/16 (233)	167 (76)

- A. The number of minutes a battery 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.
  - B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20 Hr and 100 Hr rates and 86°F (30°C) for the 5 Hr rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - C. Dimensions are based on maximum size and are for reference only. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7mm) spacing minimum.
  - D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
  - E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
  - F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- \*\*31-AGM available January 2010.

## TERMINAL CONFIGURATIONS

1	2	3	4	5	6	7	8	9	10
									
Low Profile Terminal	High Profile Terminal	Wingnut Terminal	Automotive Post Terminal	Universal Terminal	Automotive Post & Stud Terminal	Stud Terminal	Dual Wingnut Terminal	L-Terminal	Cable & Plug

\*Polyon™ Case



For a Trojan Master Distributor near you, call 800-423-6569 or +1-562-236-3000 or visit us at [www.trojanbattery.com](http://www.trojanbattery.com)