

# DEEP-CYCLE GEL BATTERIES

# CYCLING AGM BATTERIES



Trojan Deep-Cycle Gel batteries are sealed, maintenance-free batteries that deliver superior power in demanding renewable energy applications. Engineered for rugged durability, outstanding performance and long battery life, Trojan's Deep-Cycle Gel batteries feature a number of important design characteristics that provide significant advantages over competing gel products. The gelled electrolyte is a proprietary formulation containing sulfuric acid, fumed silica, pure demineralized, deionized water and a phosphoric acid additive. This exclusive formulation produces a homogenous gel that delivers consistent performance and dramatically long cycle life. Calcium copper lead alloy grids provide longer shelf life and superior corrosion resistance. The heavy-duty grids lock active material onto the grid network to efficiently deliver more concentrated energy to the terminals. Premium grade, double-insulated separators allow maximum charge flow between the plates for optimum performance.

Trojan's cycling absorbent glass mat (AGM) maintenance-free batteries for renewable energy applications feature a number of design elements to provide optimum performance. Robust plates extend the life cycle of Trojan's cycling AGM batteries. A separator of glass fibers serves to isolate the positive and negative plates while acting as a blotter to absorb the electrolyte. The separator is maintained under compression between plates to assure contact with plate surfaces. A computer-generated grid design is optimized for high power density. Low calcium grid alloy reduces gas emissions and a flame arresting, one-way pressure relief vent prevent buildup of excessive pressure. Trojan's cycling AGM batteries are low temperature tolerant, shock and vibration resistant and have a low internal resistance for higher discharge current and higher charging efficiency.

BCI GROUP SIZE	TYPE	VOLTAGE	CAPACITY <sup>A</sup> Amp-Hours (AH)			KILOWATT (kWh) 100-Hr Rate	DIMENSIONS <sup>B</sup> Inches (mm)			WEIGHT lbs. (kg)
			5-Hr Rate	20-Hr Rate	100-Hr Rate		Length	Width	Height <sup>C</sup>	
GC2	6V-GEL	6 VOLT	154	189	198	1.19	10-1/4 (260)	7-1/8 (181)	10-7/8 (276)	68 (31)
DIN	TE35-GEL	6 VOLT	180	210	220	1.32	9-5/8 (244)	7-1/2 (190)	10-7/8 (276)	69 (31)
24	24-GEL	12 VOLT	66	77	85	1.02	10-7/8 (276)	6-3/4 (171)	9-5/16 (236)	52 (24)
27	27-GEL	12 VOLT	76	91	100	1.20	12-3/4 (324)	6-3/4 (171)	9-1/4 (234)	63 (29)
31	31-GEL	12 VOLT	85	102	108	1.30	12-15/16 (329)	6-3/4 (171)	9-5/8 (245)	69 (31)
DIN	5SHP-GEL	12 VOLT	110	125	137	1.64	13-9/16 (345)	6-3/4 (171)	11-1/8 (283)	85 (39)
8D	8D-GEL	12 VOLT	188	225	265	3.18	21-1/16 (534)	11 (279)	10-13/16 (233)	157 (71)

A. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour and 100-Hour rates and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. Dimensions are based on maximum size. Dimensions may vary depending on type of handle or terminal.  
 C. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.

BCI GROUP SIZE	TYPE	VOLTAGE	CAPACITY <sup>A</sup> Amp-Hours (AH)			KILOWATT (kWh) 100-Hr Rate	DIMENSIONS <sup>B</sup> Inches (mm)			WEIGHT lbs. (kg)
			5-Hr Rate	20-Hr Rate	100-Hr Rate		Length	Width	Height <sup>C</sup>	
<b>CYCLING AGM BATTERIES</b>										
24	24-AGM	12 VOLT	67	76	84	1.01	10-3/4 (274)	6-13/16 (174)	8-11/16 (220)	54 (24)
27	27-AGM	12 VOLT	77	89	99	1.19	12-9/16 (318)	6-13/16 (174)	8-3/4 (221)	64 (29)
31	31-AGM	12 VOLT	82	100	111	1.33	13-7/16 (341)	6-13/16 (174)	9-3/16 (233)	69 (31)
<b>DUAL PURPOSE AGM BATTERIES</b>										
GC2	6V-AGM	6 VOLT	154	200	221	1.33	10-1/4 (260)	7-1/8 (181)	10-3/4 (274)	65 (29)
8D	8D-AGM	12 VOLT	179	230	254	3.05	20-1/2 (521)	10-9/16 (269)	9-3/16 (233)	167 (76)

A. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour and 100-Hour rates and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. Dimensions are based on maximum size. Dimensions may vary depending on type of handle or terminal.  
 C. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.