Energy Storage Solutions
for Off-Grid Lighting Systems

RELIABILITY MEANS EVERYTHING.

At Trojan, we understand that lighting is key to public safety and failure is not an option. Trojan's line of deep-cycle maintenance-free AGM batteries are specifically designed for off-grid lighting applications, making them the perfect choice when reliable power is absolutely essential.

Our maintenance-free batteries provide rugged durability, optimum performance and dependable power. Area, street and security lighting projects depend on Trojan's deep-cycle battery technology for consistent, long lasting power.

Trojan's deep-cycle AGM batteries deliver superior performance.

Engineered for cycling applications

Trojan's 12V AGM batteries are engineered for cycling applications. Off-grid street lighting applications require daily battery cycling since the sun goes down every day, making Trojan deep-cycle AGM batteries a perfect choice.

More energy

Trojan AGM batteries are designed to derate slower than other battery technologies at low temperatures, giving you more energy over the life of the battery.

Longer life

The expected cycle life of Trojan AGM batteries is longer than most other cycling AGM batteries on the market.

Trojan's durability, longevity and proven technology mean you can depend on our batteries to keep your lights shining all night.

Trojan batteries are available worldwide through our global distribution points and are supported by Trojan's outstanding technical support team of experienced applications engineers.

Trojan® BATTERY COMPANY
Clean energy for life.™

Trojan batteries are available worldwide.
We offer outstanding technical support, provided by full-time application engineers.
call 800.423.6569 or + 1.562.236.3000 or visit www.trojanbatteryRE.com
12380 Clark Street, Santa Fe Springs, CA 90670 • USA or email re@trojanbattery.com

BCI GROUP SIZE	TYPE	VOLTAGE	CAPACITY [A] Amp-Hours (AH)			KILOWATT (kWh)	TERMINAL Type	DIMENSIONS [B] Inches (mm)			WEIGHT lbs. (kg)
			5-Hr Rate	20-Hr Rate	100-Hr Rate	100-Hr Rate		Length	Width	Height [C]	
DEEP CYCLE AGM BATTERIES											
U1	**U1-AGM**	12 VOLT	29	33	34	.408	13	8-3/16 (207)	5-3/16 (132)	6-13/16 (173)	27 (12)
22	**22-AGM**	12 VOLT	43	50	52	.624	13	9 (229)	5-8/16 (139)	8-1/16 (205)	40 (18)
24	**24-AGM**	12 VOLT	67	76	84	1.01	6	10-3/4 (274)	6-13/16 (174)	8-11/16 (220)	54 (24)
27	**27-AGM**	12 VOLT	77	89	99	1.19	6	12-9/16 (318)	6-13/16 (174)	8-3/4 (221)	64 (29)
31	**31-AGM**	12 VOLT	82	100	111	1.33	6	13-7/16 (341)	6-13/16 (174)	9-3/16 (233)	69 (31)

TERMINAL CONFIGURATIONS

6 DT — Automotive Post & Stud Terminal

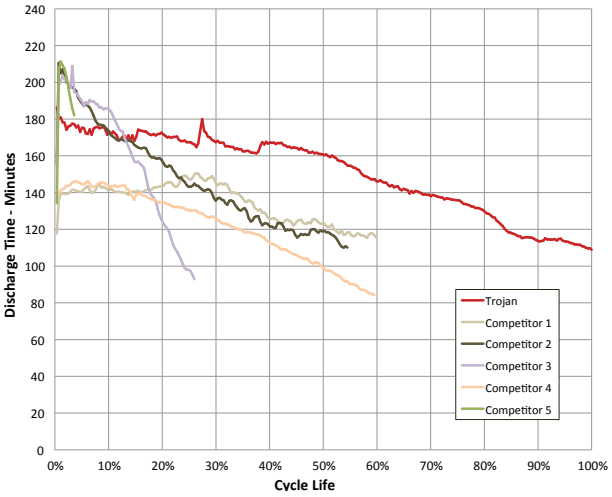
Terminal Height Inches (mm)
29/32 (20)
Torque Values in-lb (Nm)
AP: 50 – 70 (6 – 8)
ST: 120 – 180 (14 – 20)
Bolt Size
5/16 – 18

13 IT — Insert Terminal

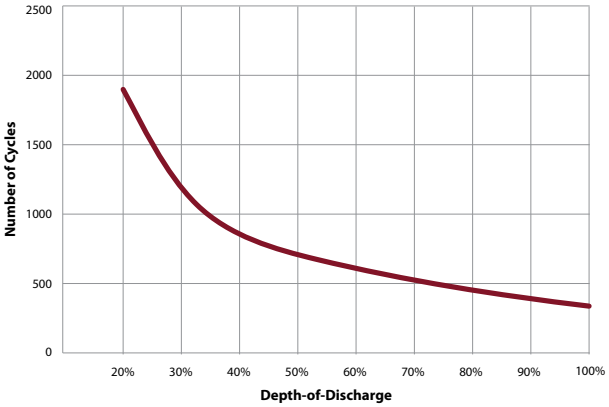
Terminal Height Inches (mm)
4-3/16 (4.7)
Torque Values in-lb (Nm)
30 (3 – 4)
Bolt Size
10-32UNF

A. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) and maintain a voltage above 1.75 V/cell. Capacities are based on nominal performance.
B. Dimensions are based on nominal 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.
Trojan's battery testing procedures adhere to both BCI and IEC test standards.

AGM Competitive Cycle Life Test



Trojan Deep-Cycle AGM Cycle Life verus Depth of Discharge



The Trojan Difference – Reputation Built on Quality, Leadership and Innovation

Leadership and Innovation

Founded in 1925 by co-founders George Godber and Carl Speer, Trojan Battery Company is the world's leading manufacturer of deep-cycle batteries. From deep-cycle flooded batteries to deep-cycle AGM and gel batteries, Trojan has shaped the world of deep-cycle battery technology with over 85 years of battery manufacturing experience. Headquartered in Santa Fe Springs, Calif., Trojan's operations include ISO 9001:2008 certified manufacturing plants in California and Georgia and international offices located in Europe, UAE and Asia. Trojan is a proud member of the Battery Council International (BCI) and a technical research partner with the Bulgarian Academy of Sciences.

Research and Development

Quality and innovation are the cornerstones of our product development. Trojan retains two state-of-the-art research and development centers dedicated exclusively to battery technology and innovation. Engineering teams, backed by over 200 years of deep-cycle development expertise, work together to innovate and bring to market advanced battery technologies that exceed our customers' expectations for outstanding battery performance.

To ensure the quality and superior performance of our batteries, Trojan applies the most rigorous testing procedures in the industry to test for cycle life, capacity, charger algorithms and both physical and mechanical integrity. Trojan's battery testing procedures adhere to both BCI and IEC test standards. Trojan's state-of-the-art research and development centers include charger characterization and analytical labs, battery prototype and evaluation labs and battery autopsy centers all dedicated to providing you with a superior battery that you can rely on.

Technical Support and Training

At Trojan one of our core strengths is the dedication and support we provide our customers. Our expertise of deep-cycle batteries provides us with a unique knowledge and understanding of battery technology in renewable energy applications. We apply this knowledge and experience to the benefit of our customers by offering outstanding technical support provided by experienced engineers. To assist our customers with in-depth understanding of battery technologies and systems specifications, Trojan offers a range of training services that can be customized according to your application and market focus. These training services range from over-the-phone technical support to two-day training seminars and even on-site training sessions.

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