



for Renewable Energy / Hybrid Systems / Backup Power Applications

PREMIUM LINE

MODEL: L16RE-B with Bayonet Cap

DIMENSIONS: inches (mm)

BATTERY: Flooded/wet lead-acid battery

COLOR: Maroon (case/cover)

MATERIAL: Polypropylene



SMART



SMART CARBON

Deep-cycle batteries used in off-grid and unstable grid applications are heavily cycled at partial state of charge (PSOC). Operating at PSOC on a regular basis can quickly diminish the overall life of a battery, which results in frequent and costly battery replacements.

To address the impact of PSOC on deep-cycle batteries in renewable energy (RE), inverter backup and telecom applications, Trojan Battery has now included Smart Carbon™ as a standard feature in its Industrial and Premium flooded battery lines.

PRODUCT SPECIFICATIONS

BCI GROUP SIZE	ТҮРЕ	CAPACITY Amp-Hours (AH)							ENERGY (kWh)	VOLTAGE	TERMINAL	DIMENSIONS ^B Inches (mm)			WEIGHT
		2-Hr Rate	5-Hr Rate	10-Hr Rate	20-Hr Rate	48-Hr Rate	72-Hr Rate	100-Hr Rate	100-Hr Rate	VOLIAGE	Type ^D	Length	Width	Height ^C	lbs. (kg)
PREMIUM LINE - DEEP-CYCLE FLOODED BATTERIES															
903	L16RE-B*	241	303	340	370	394	403	410	2.46	6 VOLT	5	11.67 (296)	6.95 (177)	17.56 (446)	118 (54)

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)					
	Voltage per cell				
Absorption charge	2.35-2.45				
Float charge	2.20				
Equalize charge	2.58				

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

TERMINAL CONFIGURATIONS

5 LT	L-Terminal
STATE OF THE PARTY	Terminal Height Inches (mm) 1-3/4 (43)
3	Torque Values in-lb (Nm) 100 – 120 (11 – 14)
	Bolt 3/8"

* Polyon™ Case



OPERATIONAL DATA

OPERATING TEMPERATURE	SPECIFIC GRAVITY			
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge	The specific gravity at 100% state-of-			
greater than 60%.	charge is 1.280			

Premium Line batteries manufactured prior to March 2012 have 1.260 SG value.

CHARGING TEMPERATURE COMPENSATION

To the Voltage Reading -- Subtract 0.005 volt per cell (VPC) for every 1°C above 25°C or add 0.005 volt per cell for every 1°C below 25°C.

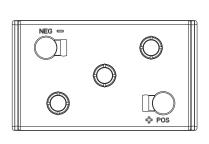
EXPECTED LIFE VS. TEMPERATURE

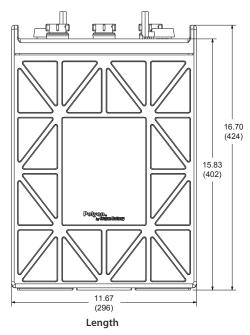
Chemical reactions internal to the battery are driven by voltage and temperature. The higher the battery temperature, the faster chemical reactions will occur. While higher temperatures can provide improved discharge performance the increased rate of chemical reactions will result in a corresponding loss of battery life. As a rule of thumb, for every 10°C increase in temperature the reaction rate doubles. Thus, a month of operation at 35°C is equivalent in battery life to two months at 25°C. Heat is an enemy of all lead acid batteries, FLA, AGM and gel alike and even small increases in temperature will have a major influence on battery life.

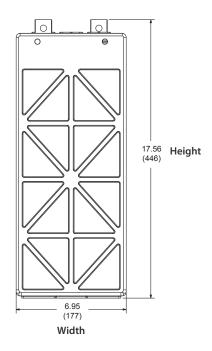
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PREMIUM LINE

BATTERY DIMENSIONS (shown with LT)

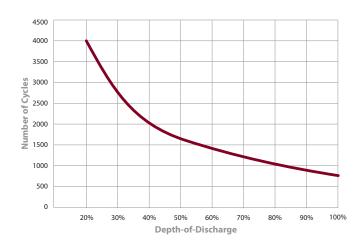


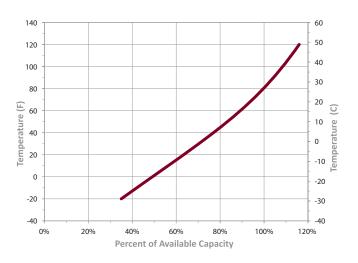




TYPICAL CYCLE LIFE IN A STATIONARY APPLICATION

PERCENT CAPACITY VS. TEMPERATURE





- 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 peak 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.
- D. Terminal images are representative only.

Trojan's Premium Line is tested to BCI and IEC 61427 standards.



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

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