

**MODEL:** 31XHS with Screw in Cap  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** Flooded/wet lead-acid battery  
**COLOR:** Black (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh)	TERMINAL Type <sup>E</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
		@25 Amps	@75 Amps	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			100-Hr Rate	Length	Width	
<b>12 VOLT DEEP CYCLE BATTERY - with T2 TECHNOLOGY™</b>													
30H	31XHS	225	57	105	120	130	144	1.73	11	12.97 (329)	6.75 (171)	9.58 (243)	67 (30)

- 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-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.
  - C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal.
  - D. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
  - E. Terminal images are representative only.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

<b>CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)</b>				
System Voltage	12V	24V	36V	48V
Daily Charge	14.8	29.6	44.4	59.2
Float	13.2	26.4	39.6	52.8
Equalize	15.5	31.0	46.5	62.0

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.

## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

## OPERATIONAL DATA

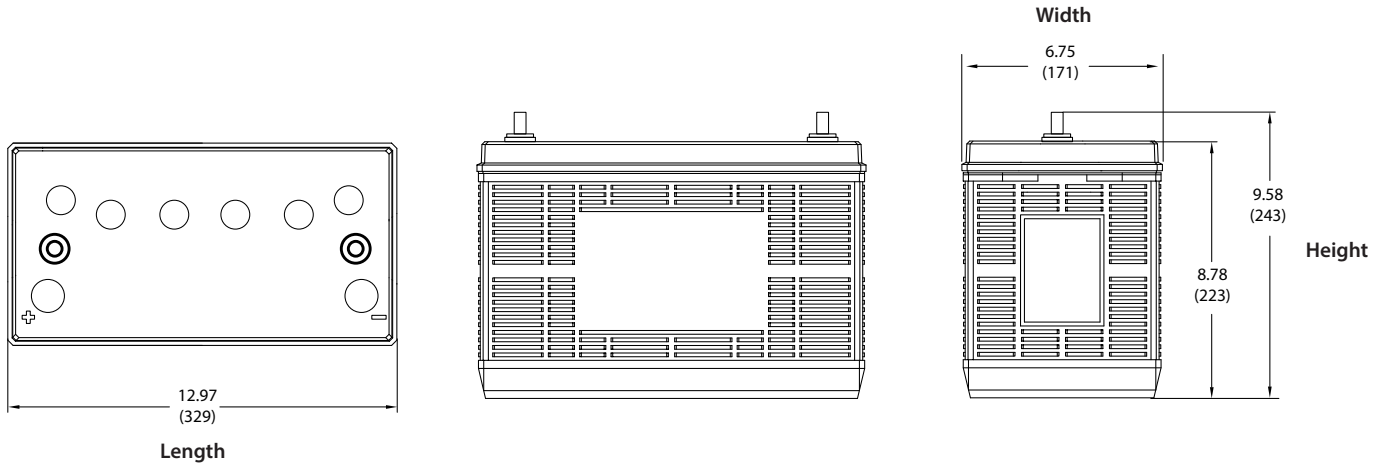
Operating Temperature	Self Discharge
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	5 – 15% per month depending on storage temperature conditions.

## TERMINAL CONFIGURATIONS

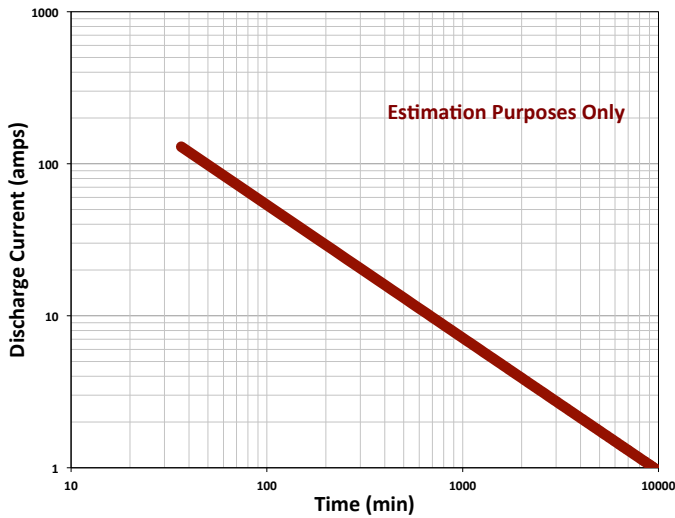
11	ST	Stud Terminal
		<i>Terminal Height Inches (mm)</i> .64 (16)
		<i>Torque Values in-lb (Nm)</i> 120 – 180 (14 – 20)
		<i>Stud Size</i> 3/8 – 16



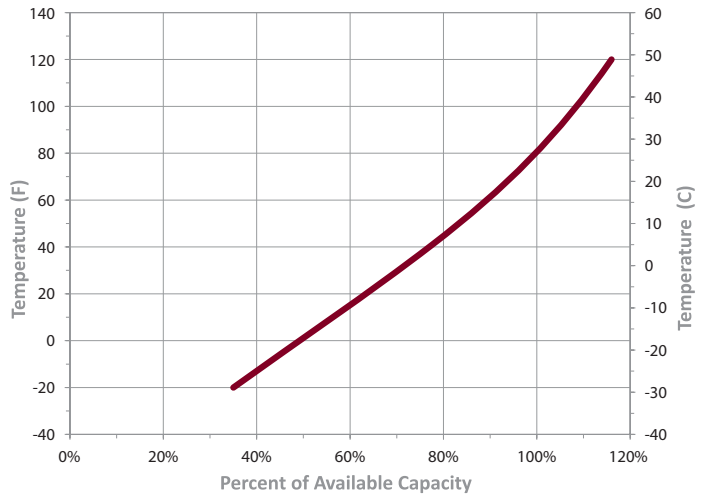
## BATTERY DIMENSIONS (shown with ST)



## TROJAN 31XHS PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2008 =



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

**For a Trojan Master Distributor near you, call 800.423.6569 or + 1.562.236.3000 or visit [www.trojanbattery.com](http://www.trojanbattery.com)**

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