

DATA SHEET

# **31XHS**

MODEL31XHS with Screw in CapVOLTAGE12MATERIALPolypropyleneDIMENSIONSInches (mm)BATTERYDeep-Cycle Flooded/Wet Lead-Acid BatteryCOLORBlackWATERINGN/A



## 12V

#### **PRODUCT + PHYSICAL** SPECIFICATIONS

BCI Group Size	Туре	Voltage	Cell(s)	Terminal Type <sup>G</sup>	[	Dimensions <sup>c</sup> Inches (mm	)	Weight Lbs. (kg)
					Length	Width	Height <sup>F</sup>	
31	31XHS	12	6	11	12.97 (329)	6.75 (171)	9.58 (243)	67 (30)

#### **ELECTRICAL** SPECIFICATIONS

Cranking Pe	Cranking Performance Capacity <sup>A</sup> Minutes		<sup>A</sup> Minutes	Capacity <sup>B</sup> Amp-Hours (AH)				Energy (kWh)	Internal Resistance (m $\Omega$ )	Short Circuit Current (amps)
C.C.A. <sup>D</sup> @0°F(-18°C)	C.A. <sup>E</sup> @32°F (0°C)	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
	—	225	57	105	120	130	144	1.73	—	_

#### **CHARGING** INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	12V	24V	36V	48V	
Bulk Charge	14.82	29.64	44.46	59.28	
Float Charge	13.50	27.00	40.50	54.00	
Equalize Charge	16.20	32.40	48.60	64.80	
Do not install or share batteries in a scaled or non-ventilated compartment. Constant under or overshareing will damage the battery and shorten its life as with any battery					

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

Add	Subtract
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F 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.

#### STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Specific Gravity	Cell	12 Volt	
100	1.277	2.122	12.73	
90	1.258	2.103	12.62	
80	1.238	2.083	12.50	
70	1.217	2.062	12.37	
60	1.195	2.040	12.24	
50	1.172	2.017	12.10	
40	1.148	1.993	11.96	
30	1.124	1.969	11.81	
20	1.098	1.943	11.66	
10	1.073	1.918	11.51	



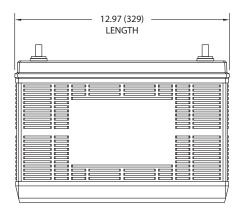


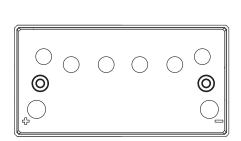


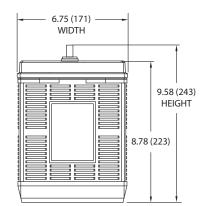
### **TERMINAL** CONFIGURATIONS<sup>6</sup>



#### **BATTERY** DIMENSIONS (shown with ST)

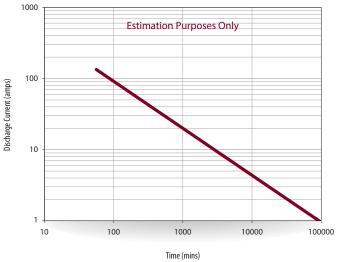




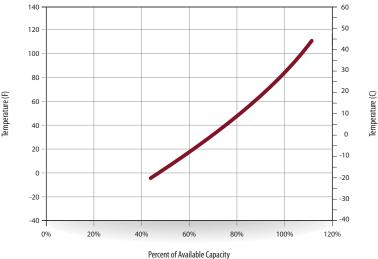


31XHS Data Sheet\_122117

#### **TROJAN 31XHS PERFORMANCE**



#### **PERCENT CAPACITY VS. TEMPERATURE**



The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above A.

B.

1.75 V/cell. Capacities are based on peak performance. The amount of amp-hours (AH) 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. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing

C. 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 (-18°C) at a voltage above 1.2 V/cell.

(-18°C) at a voitage above 1.2 V/ceil. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voltage above 1.2 V/ceil. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal. E.

F. G. Terminal images are representative only.



#### 800.423.6569 / +1.562.236.3000 / trojanbattery.com

© 2017 Trojan Battery Company, LLC. All rights reserved. Trojan Battery Company is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Trojan Battery Company reserves the right to make adjustments to this publication at any time, without notice or obligation.