



MODEL: 31-GEL

VOLTAGE: 12

**DIMENSIONS:** Inches (mm)

**BATTERY:** VRLA GEL

**COLOR:** Maroon (case) Grey (cover)

MATERIAL: Polypropylene

**WATERING SYSTEM:** N/A



### PRODUCT SPECIFICATIONS

BCI GROUP	TYPE	CAPACITY A Minutes	CAPACITY <sup>B</sup> Amp-Hours (AH)			)	ENERGY (kWh)	TERMINAL	DIMENSIONS <sup>c</sup> Inches (mm)			WEIGHT lbs.
SIZE		@25 Amps	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate	100-Hr Rate	Type <sup>E</sup>	Length	Width	Height <sup>D</sup>	(kg)
12 VOLT DEEP CYCLE GEL BATTERY												
31	31-GEL	200	85	94	102	108	1.30	7	12.94 (329)	6.82 (173)	9.64 (245)	70 (32)

- 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 77°F (25°C) for Gel Lines 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.

### **CHARGING INSTRUCTIONS**

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)						
System Voltage	12V	24V	36V	48V		
Absorption Charge	14.1 – 14.4	28.2 – 28.8	42.3 – 43.2	56.4 – 57.6		
Float Charge	13.5	27	40.5	54		

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**

<u> </u>					
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%.	Less than 3% per month depending on storage temperature conditions.				

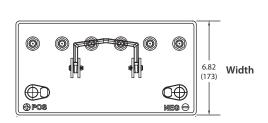
Batteries may be utilized at higher temperatures with the understanding that battery life will be reduced by 50% for every 10° C (18° F) increase in operating temperatures over 68° F (20° C).

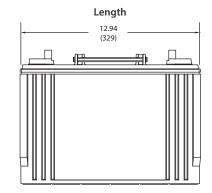
### **TERMINAL CONFIGURATIONS**

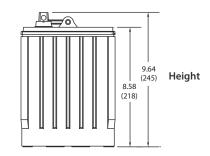
7	UT	Universal Terminal
		Terminal Height Inches (mm) 1.10 (28)
	3	Torque Values in-lb (Nm)
- 4		95–105 (11 – 12)
-		Bolt
		5/16"

Trojan's battery testing procedures adhere to both BCI and IEC test standards.

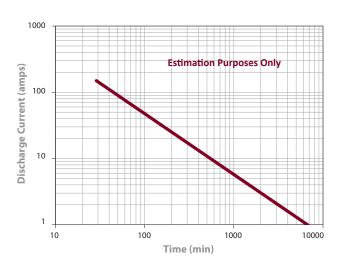
# **BATTERY DIMENSIONS** (shown with UT)



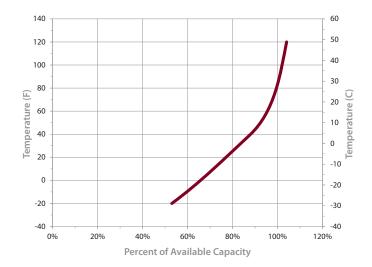




## **TROJAN 31-GEL PERFORMANCE**



## **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.

Официальный дистрибьютор в РБ ООО «Кипер Трэйд» (29) 237-14-14,(29) 337-14-14, www.kiper.by

12380 Clark Street, Santa Fe Springs, CA 90670 • USA