

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 SIZE	TYPE	CAPACITY ^A Minutes	CAPACITY ^B Amp-Hours (AH)				ENERGY (kWh)	TERMINAL Type ^E	DIMENSIONS ^C Inches (mm)			WEIGHT lbs. (kg)
		@25 Amps	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate	100-Hr Rate		Length	Width	Height ^D	
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.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

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

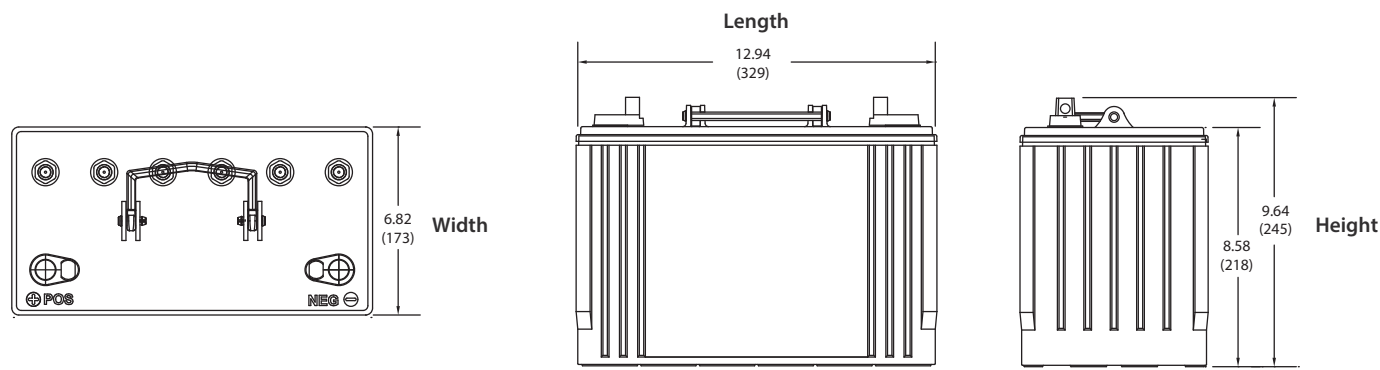
Operating Temperature	Self Discharge
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

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).

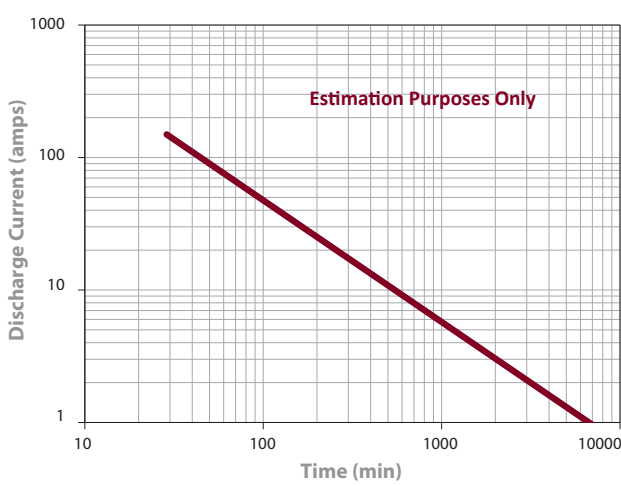
TERMINAL CONFIGURATIONS

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

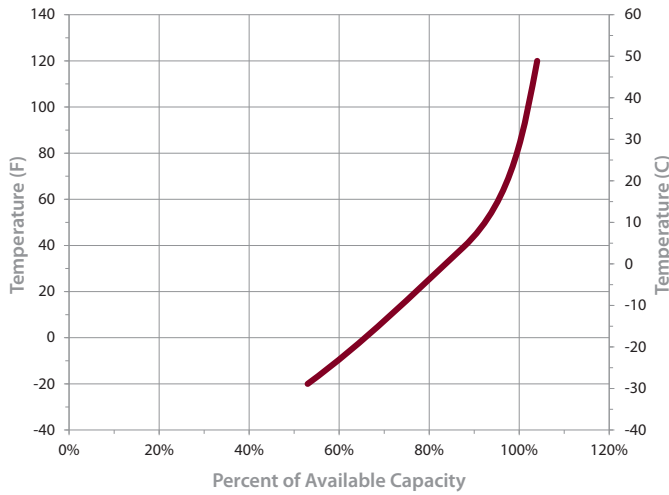
BATTERY DIMENSIONS (shown with UT)



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.

**For a Trojan Master Distributor near you,
call 800.423.6569 or + 1.562.236.3000 or visit www.trojanbattery.com**

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