

MODEL:	31-GEL
VOLTAGE:	12
DIMENSIONS:	Inches (mm)
BATTERY:	VRLA GEL
COLOR:	Maroon (case) Grey (cover)
MATERIAL:	Polypropylene
WATERING SYSTEM:	N/A

# **31-GEL DATA SHEET**



#### **PRODUCT SPECIFICATIONS**

BCI GROUP SIZE	ТҮРЕ	CAPACITY A Minutes @25 Amps	5-Hr Rate	CAPACITY <sup>B</sup> An 10-Hr Rate	np-Hours (AH) 20-Hr Rate	100-Hr Rate	ENERGY (kWh) 100-Hr Rate	TERMINAL Type <sup>E</sup>	DIME	NSIONS <sup>c</sup> Inches Width	(mm) Height <sup>D</sup>	WEIGHT lbs. (kg)
31	31-GEL	200	85	94	12 VOLT 102	DEEP CY 108	<b>CLE GEL B</b> 1.30	ATTERY	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**

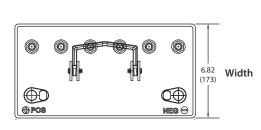
Operating Temperature	Self Discharge
-4°F to 113°F (-20°C to +45°C). At temperatures below $32^{\circ}F$ (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

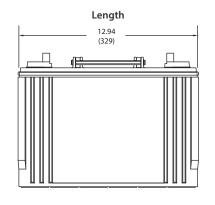
Batteries may be utilized at higher temperatures with the understanding that battery life will be reduced by 50% for every  $10^{\circ}$  C ( $18^{\circ}$  F) increase in operating temperatures over  $68^{\circ}$  F ( $20^{\circ}$  C).

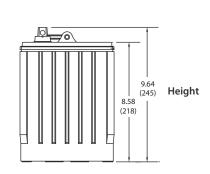
#### **TERMINAL CONFIGURATIONS**



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



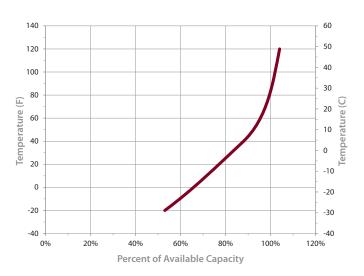




**TROJAN 31-GEL PERFORMANCE** 



**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

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