

MOTIVE 31-GEL

MODEL 31-Gel

VOLTAGE 12

CAPACITY 102Ah @ 20Hr MATERIAL Polypropylene

BATTERY VRLA Gel / Non-Spillable / Maintenance-Free

COLOR Maroon (case) Grey (cover)

WATERING No Watering Required





12 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	TERMINAL TYPE G	DIMENSIONS © INCHES (mm)		WEIGHT H LBS. (kg)	HANDLES	INSTALLATION ORIENTATION	
04		_	LENGTH	WIDTH	HEIGHT ^D	- 2 (22)	<u> </u>	Horizontal
31	31-GEL	7	12.94 (329)	6.82 (173)	9.64 (245)	70 (32)	Plastic Handle	and Vertical

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY A MINUTES		CAPACITY ^B AN	IP-HOURS (Ah)		ENERGY (kWh)	INTERNAL RESISTANCE (mΩ) SHORT CIRCUIT CURRENT (amps)
10	@ 25 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr	
12	200	85	94	102	108	1.30	

CHARGING INSTRUCTIONS

CHARGE	R VOLTAGE SETT	ings (at 77°F/25	5°C)		
SYSTEM VOLTAGE	12V 24V		36V	48V	
Maximum Charge Current (A)	13% of C ₂₀				
Absorption Voltage (2.40 V/cell)	14.40	28.80	43.20	57.60	
Float Voltage (2.25 V/cell)	13.50	27.00	40.50	54.00	

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
0.003 volt per cell for every 1°C below 25°C 0.0017 volt per cell for every 1°F below 77°F	0.003 volt per cell for every 1°C above 25°C 0.0017 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%.	Less than 3% per month depending on storage temperature conditions

RECYCLE RESPONSIBLY



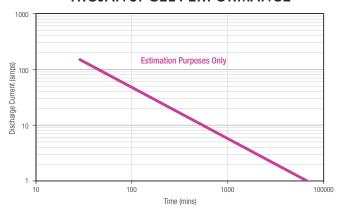




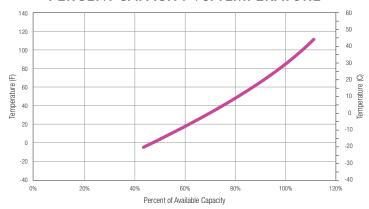
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	CELL	12 VOLT
100	2.14	12.84
75	2.11	12.66
50	2.06	12.36
25	2.00	12.00
0	1.97	11.82

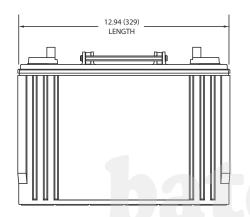
TROJAN 31-GEL PERFORMANCE

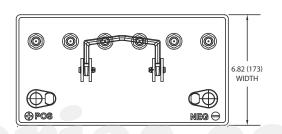


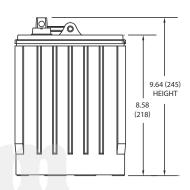
PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS (shown with UT)







TERMINAL CONFIGURATIONS^E

7	UT	UNIVERSAL TERMINAL
1	9	Terminal Height Inches (mm) 1.10 (28) Torque Values in-Ib (Nm) 95 – 105 (11 – 12) Bolt 5/16" – 18

- 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.

 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 are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
- D. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal. Terminal images are representative only.
 Weight may vary.









Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.

