

DATA SHEET

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
MATERIAL BATTERY COLOR	Polypropylene VRLA Gel / Non-Spillable / Maintenance-Free Maroon (case) Grey (cover)



12 VOLT

PHYSICAL SPECIFICATIONS

	BCI	MODEL NAME	TERMINAL TYPE ^G	DIMENSIONS [©] INCHES (mm)			WEIGHT [#] LBS. (kg)	HANDLES	INSTALLATION ORIENTATION
	31 31-GEL	7	LENGTH	WIDTH	HEIGHT ^D	70 (32)	Plastic Handle	Horizontal and Vertical	
			12.94 (329)	6.82 (173)	9.64 (245)				

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY ^A MINUTES	CAPACITY ^B AMP-HOURS (Ah)			ENERGY (kWh)	INTERNAL RESISTANCE (m Ω)	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

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
SYSTEM VOLTAGE	12V	24∨	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

temperatures below 32°F (0°C) maintain a

state of charge greater than 60%.

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	Less than 3% per month depending			

Less than 3% per month depending

on storage temperature conditions

RECYCLE RESPONSIBLY



STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

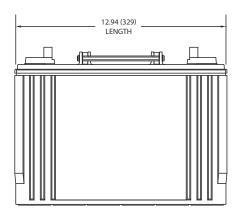
PERCENTAGE CHARGE	CELL	12 VOLT
100	2.14	12.84
75	2.11	12.66
50	2.06	12.36
25	2.00	12.00
0	1.97	11.82

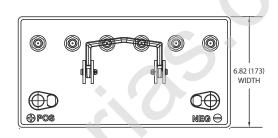
TROJAN 31-GEL PERFORMANCE 1000 **Estimation Purposes Only** Discharge Current (amps) 01 01 100 1000 100000 10 Time (mins)

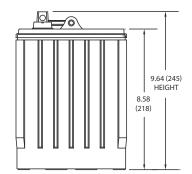
60 140 50 120 40 100 30 80 20 Q Temperature (F) 60 40 20 -10 0 -20 -20 -30 -40 -40 20% 100% 40% 60% 80% 120% 0% Percent of Available Capacity

PERCENT CAPACITY VS. TEMPERATURE

BATTERY DIMENSIONS (shown with UT)







Temperature 10

0

TERMINAL CONFIGURATIONS^E

7	UT	UNIVERSAL TERMINAL				
	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. A.

- The fulfilled of interview of the set of the B.
- C. (12.7 mm) spacing minimum.



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

- 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. E.





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