

# **MOTIVE 27-GEL**

MODEL 27-Gel

VOLTAGE 12

CAPACITY 91Ah @ 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 E	DIMENSIONS © INCHES (mm)			WEIGHT F LBS. (kg)	INSTALLATION ORIENTATION
07		_	LENGTH	WIDTH	HEIGHT <sup>D</sup>		Horizontal
27	27-GEL	7	12.73 (323)	6.38 (162)	9.26 (235)	62 (28)	and Vertical

#### **ELECTRICAL SPECIFICATIONS**

VOLTAGE	CAPACITY A MINUTES	CAPACITY <sup>B</sup> AMP-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	179	76	84	91	100	1.20	<del>-</del>	_

#### **CHARGING INSTRUCTIONS**

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)					
SYSTEM VOLTAGE	12V	24V	36V	48V	
Maximum Charge Current (A)	13% of C <sub>20</sub>				
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**



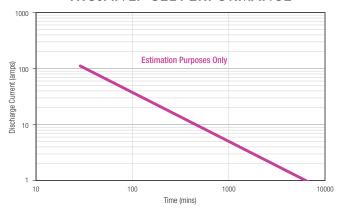




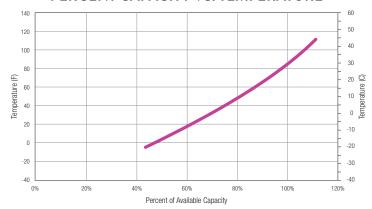
#### **STATE OF CHARGE** MEASURE OF OPEN-CIRCUIT VOLTAGE

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

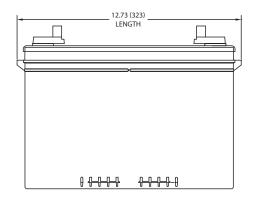
#### **TROJAN 27-GEL PERFORMANCE**

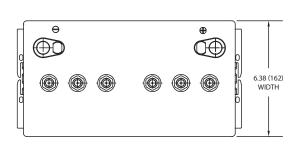


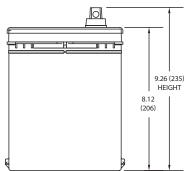
#### PERCENT CAPACITY VS. TEMPERATURE



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







#### TERMINAL CONFIGURATIONS

7	UT	UNIVERSAL TERMINAL
1	3	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.

