TROJAN BATTERY COMPANY

DATA SHEET

MOTIVE 8D-GEL

MODEL **8D-Gel**
VOLTAGE **12**
CAPACITY **225Ah @ 20Hr**
MATERIAL **Polypropylene**
BATTERY **VRLA GEL / Non-Spillable / Maintenance-Free**
COLOR **Maroon (case) Grey (cover)**
WATERING **No Watering Required**

MADE IN THE USA

12 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	TERMINAL TYPE [E]	DIMENSIONS [C] INCHES (mm)			WEIGHT [F] LBS. (kg)	INSTALLATION ORIENTATION
			LENGTH	WIDTH	HEIGHT [D]		
8D	8D-GEL	5	20.69 (526)	10.95 (278)	10.82 (275)	168 (76)	Horizontal and Vertical

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY [A] MINUTES	CAPACITY [B] AMP-HOURS (Ah)				ENERGY (kWh)	INTERNAL RESISTANCE (mΩ)	SHORT CIRCUIT CURRENT (amps)
	@ 25 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
12	500	188	207	225	265	3.18	–	–

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°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

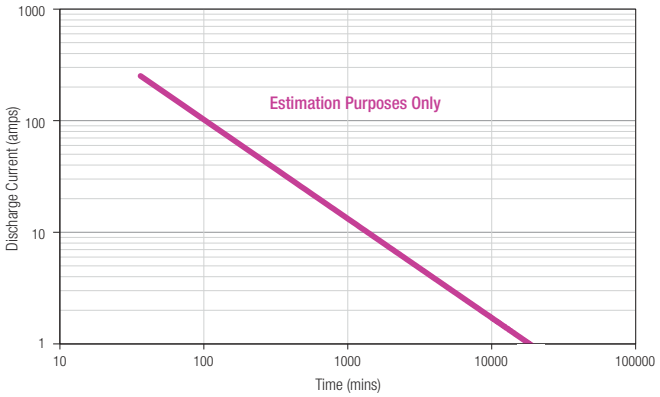
99% RECYCLABLE

12V Gel

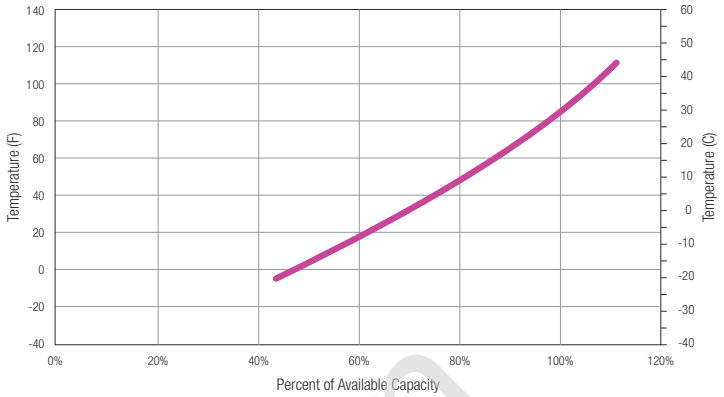
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

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

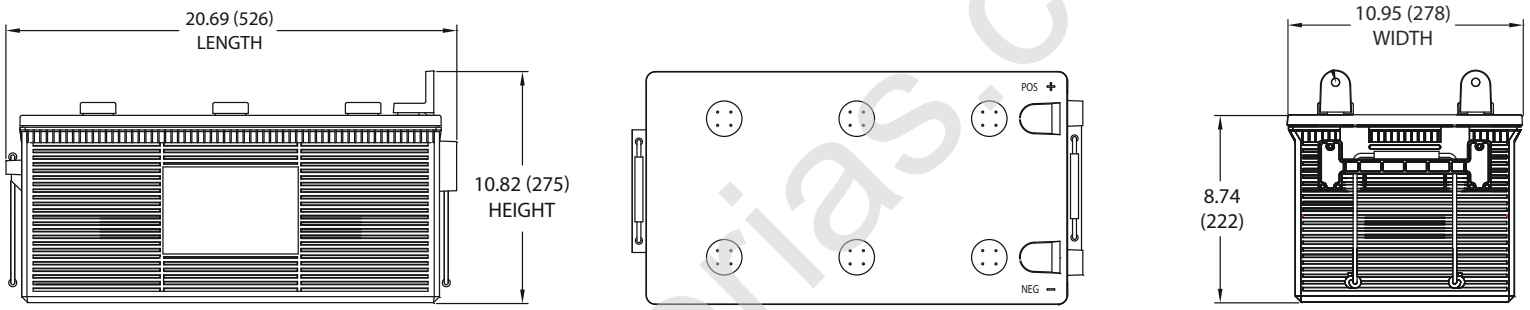
TROJAN 8D-GEL PERFORMANCE



PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS (shown with LT)



TERMINAL CONFIGURATIONS[E]

5 LT	L-TERMINAL
	**Terminal Height Inches (mm)** 1.70 (43) **Torque Values in-lb (Nm)** 95 – 105 (11 – 12) **Bolt** 5/16" – 18

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 80°F (27°C) 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. 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.
E. Terminal images are representative only.
F. Weight may vary.

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

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