TROJAN BATTERY COMPANY

DATA SHEET

MOTIVE 8V-GEL

MODEL **8V-Gel**
VOLTAGE **8**
CAPACITY **140Ah @ 20Hr**
MATERIAL **Polypropylene**
BATTERY **VRLA GEL / Non-Spillable / Maintenance-Free**
COLOR **Grey**
WATERING **No Watering Required**

8 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	TERMINAL TYPE [G]	DIMENSIONS [C] INCHES (mm)			WEIGHT [H] LBS. (kg)	INSTALLATION ORIENTATION
			LENGTH	WIDTH	HEIGHT [F]		
GC8	8V-GEL	6	10.31 (262)	7.13 (181)	10.88 (276)	70 (32)	Horizontal and Vertical

ELECTRICAL SPECIFICATIONS

VOLTAGE	CRANKING PERFORMANCE		CAPACITY [A] MINUTES			CAPACITY [B] AMP-HOURS (Ah)				ENERGY (kWh)
	C.C.A. [D] @0°F	C.A. [E] @32°F	@ 25 Amps	@ 56 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr
8	400	575	270	102	75	114	127	140	160	1.28

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)			
SYSTEM VOLTAGE	**8V**	**24V**	**48V**
Maximum Charge Current (A)	13% of C_{20}		
Absorption Voltage (2.40 V/cell)	9.60	28.80	57.60
Float Voltage (2.25 V/cell)	9.00	27.00	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

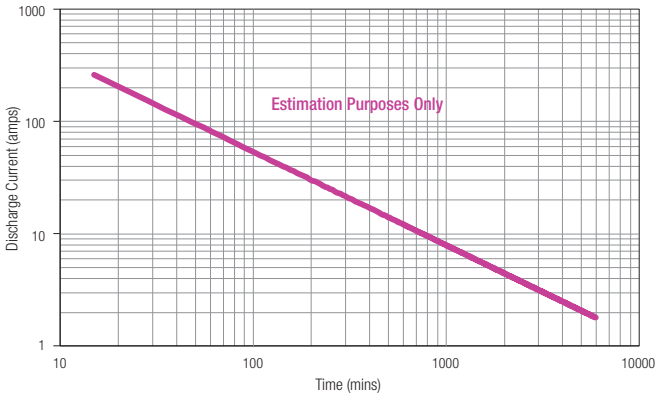
OPERATING TEMPERATURE	SELF DISCHARGE
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions

RECYCLE RESPONSIBLY

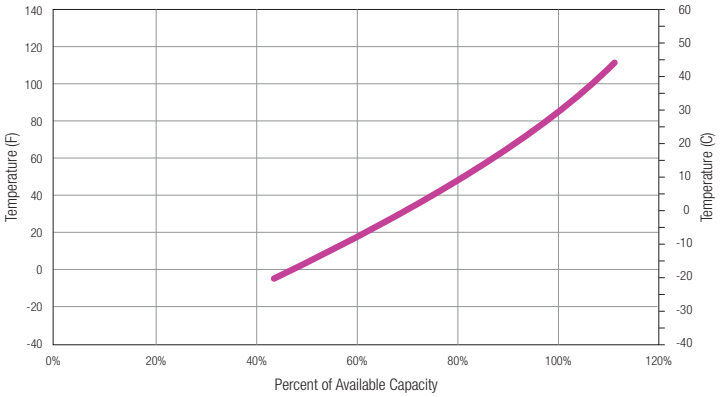
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	CELL	8 VOLT
100	2.14	8.56
75	2.11	8.44
50	2.06	8.24
25	2.00	8.00
0	1.97	7.88

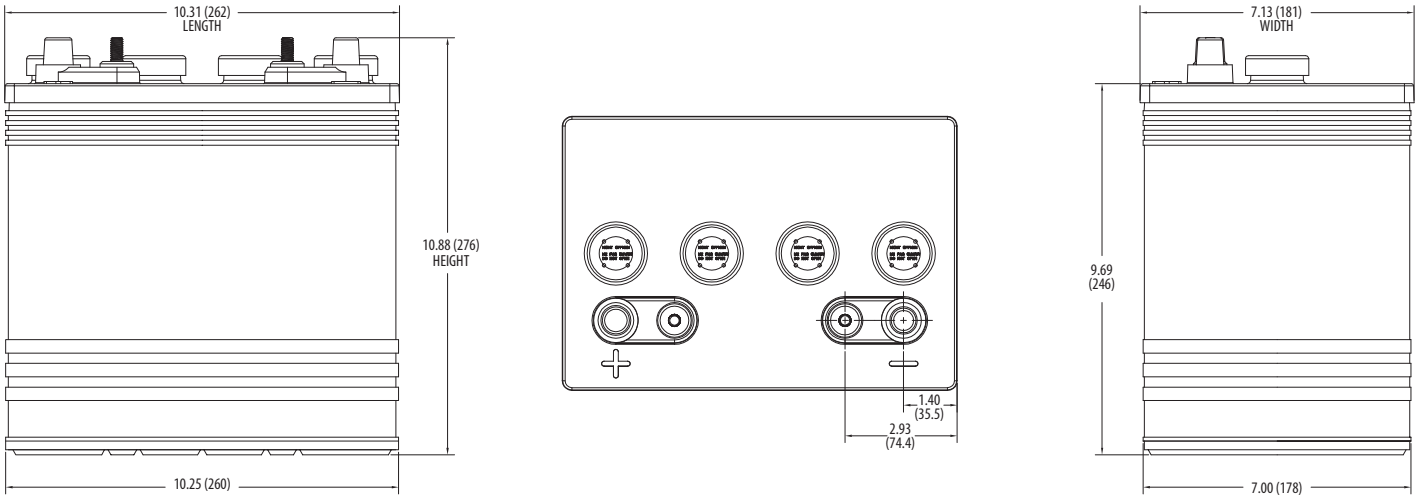
TROJAN 8V-GEL PERFORMANCE



PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS (shown with DT)



TERMINAL CONFIGURATIONS[G]

6 DT	AUTOMOTIVE POST & STUD TERMINAL
	**Terminal Height Inches (mm)** 0.79 (20) **Torque Values in-lb (Nm)** Stud: 95 – 105 (11 – 12) / AP: 50 – 70 (6 – 8) **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. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
G. Terminal images are representative only.
H. 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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8V-Gel_DS_072619