DISCONTINUED

TROJAN BATTERY COMPANY

DATA SHEET

MOTIVE 18DC-500ML

MODEL **18DC-500ML with Bayonet Cap**
VOLTAGE **36**
MATERIAL **Polypropylene**
DIMENSIONS **Inches (mm)**
BATTERY **Deep-Cycle Flooded/Wet Lead-Acid Battery**
COLOR **Black**
WATERING **Single-Point Watering Kit**

MADE IN THE USA

WITH T2 TECHNOLOGY

36 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	VOLTAGE	CELL(S)	TERMINAL TYPE [G]	DIMENSIONS [C] INCHES (mm)			WEIGHT [H] LBS. (kg)
					LENGTH	WIDTH	HEIGHT [F]	
N/A	DC-500ML OPTION A	36	18	12	35.20 (897)	19.10 (486)	16.70 (425)	986 (447)
	DC-500ML OPTION B			5, 12	30.50 (775)	19.10 (486)	16.70 (425)	986 (447)

ELECTRICAL SPECIFICATIONS

CRANKING PERFORMANCE		CAPACITY [A] MINUTES		CAPACITY [B] AMP-HOURS (Ah)				ENERGY (kWh)	INTERNAL RESISTANCE (mΩ)	SHORT CIRCUIT CURRENT (amps)
C.C.A.[D] @ 0°F (-18°C)	C.A.[E] @ 32°F (0°C)	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr	—	—
—	—	1050	272	361	410	450	500	6.00		

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)	
SYSTEM VOLTAGE	**36V**
Bulk Charge	44.46
Float Charge	40.50
Equalize Charge	48.60

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
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 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%.	5 – 15% per month depending on storage temperature conditions.

RECYCLE RESPONSIBLY

99% RECYCLABLE

12V Flooded

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	SPECIFIC GRAVITY	CELL	36 VOLT
100	1.277	2.122	38.196
90	1.258	2.103	37.854
80	1.238	2.083	37.494
70	1.217	2.062	37.116
60	1.195	2.040	36.72
50	1.172	2.017	36.306
40	1.148	1.993	35.874
30	1.124	1.969	35.442
20	1.098	1.943	34.974
10	1.073	1.918	34.524

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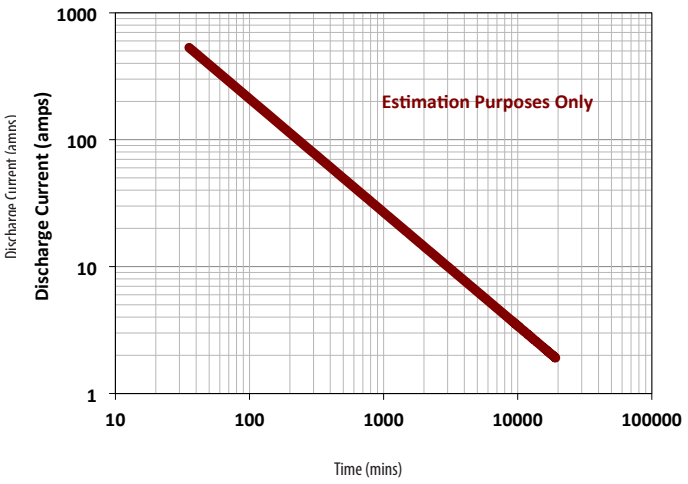
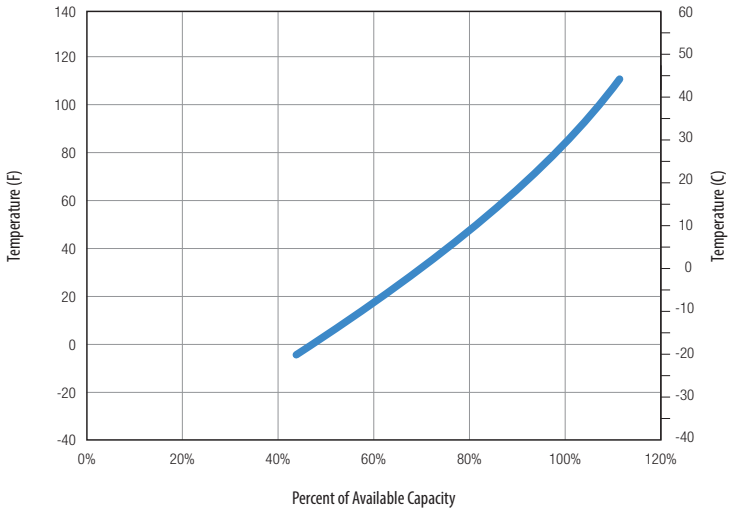
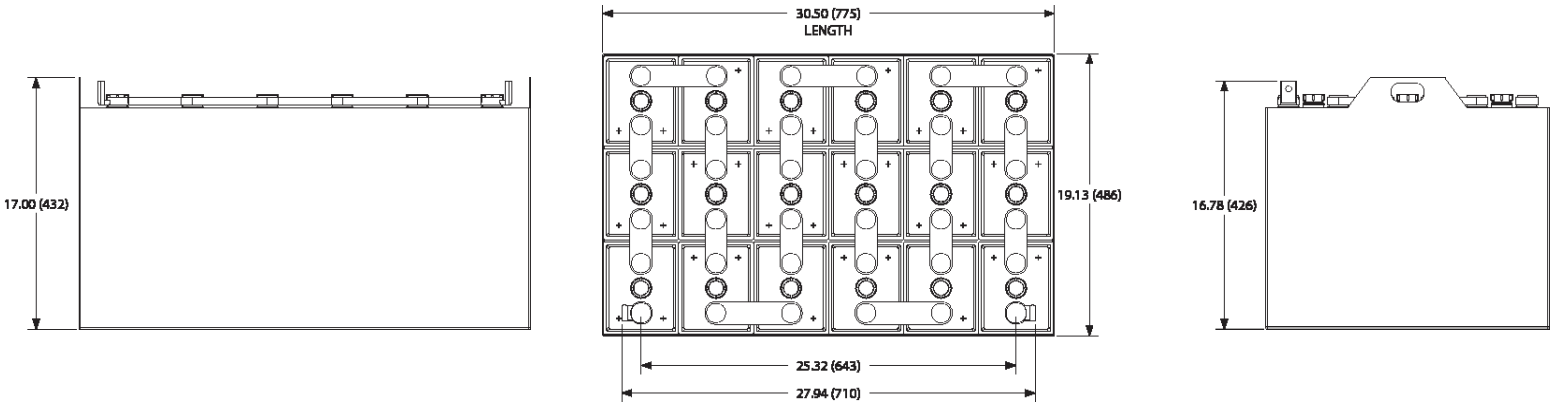
TROJAN DC-500ML PERFORMANCE



PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS (shown with LT)



TERMINAL CONFIGURATIONS[G]

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

12 AP	CABLE & PLUG
	

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 may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 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 (-18°C) 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 (0°C) 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. Height 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.

Battery Council International

TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2015 =

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

DISCONTINUED

This product is no longer available to order.
For a suitable alternative product,
please contact your Trojan sales representative.

TROJAN BATTERY COMPANY

800.423.6569 / +1.562.236.3000 / trojanbattery.com

18DC-500ML_DS_021119