

# **MOTIVE T105-AGM**

MODEL T105-AGM

VOLTAGE 6

CAPACITY 217Ah @ 20Hr MATERIAL Polypropylene

BATTERY VRLA AGM / Non-Spillable / Maintenance-Free

COLOR Maroon

WATERING No Watering Required







## 6 VOLT

#### **PHYSICAL SPECIFICATIONS**

BCI	MODEL NAME	TERMINAL TYPE G	DIMENSIONS © INCHES (mm)			WEIGHT   LBS. (kg)	HANDLES	INSTALLATION ORIENTATION
			LENGTH	WIDTH	HEIGHT F			Horizontal
GC2	T105-AGM	M8/AP/LT	10.30 (262)	7.06 (179)	10.73 (273)	68 (31)	Embedded	and Vertical

#### **ELECTRICAL SPECIFICATIONS**

VOLTAGE	Cranking Performance Capacity A Minutes		CAPACITY <sup>B</sup> AMP-HOURS (Ah)				ENERGY (kWh)	INTERNAL RESISTANCE (mΩ)	SHORT CIRCUIT CURRENT (amps)		
6	C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	@ 25 Amps	@ <b>75</b> Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr	1.0	3250
ь	-	_	440	115	171	187	217	230	1.38	1.9	

#### **CHARGING INSTRUCTIONS**

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)						
SYSTEM VOLTAGE	6V 12V 24V 3				48V	
Maximum Charge Current (A)	20% of C <sub>20</sub>					
Absorption Voltage (2.40 V/cell)	7.20	14.40	28.80	43.20	57.60	
Float Voltage (2.25 V/cell)	6.75	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
0.005 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 122°F (-20°C to +50°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**



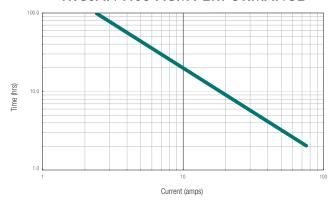




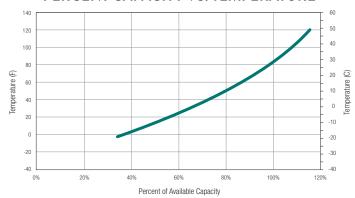
#### **STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE**

PERCENTAGE CHARGE	CELL	6 VOLT
100	2.14	6.42
75	2.09	6.27
50	2.04	6.12
25	1.99	5.97
0	1.94	5.82

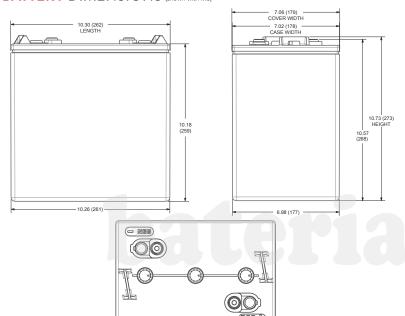
#### TROJAN T105-AGM PERFORMANCE



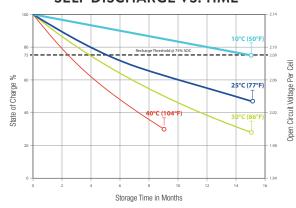
#### PERCENT CAPACITY VS. TEMPERATURE



#### **BATTERY DIMENSIONS** (shown with M8)



#### SELF DISCHARGE VS. TIME



#### TERMINAL CONFIGURATIONS<sup>6</sup>

15	M8	М8
		Battery Height with Terminal in Inches (mm) 10.57 (268)  Torque Values in-Ib (Nm)  Bolt: 85 – 90 (10 – 11)
15	M8	M8 WITH LT ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED)
		Battery Height with Terminal in Inches (mm) 12.07 (307)  Torque Values in-Ib (Nm) Connection to M8: 85 – 90 (10 – 11) Connection to LT: 65 – 75 (7.5 – 8.5)  Bolt Size  M8 x 1.25

**M8** M8 WITH AP ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED) **Battery Height with Terminal in Inches (mm)** 11.41 (290) Torque Values in-lb (Nm) Connection to M8: 85 - 90 (10 - 11)Connection to AP: 50 - 70 (6 - 8)

- 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.

  The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour rate and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.

  Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.
- 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 CAL Clorating Arrigo Ten deschaleg level in a Imperes which a reve, may regard usually 2 and internation to 30 seconds at 32 V/Cell. This is sometimes referred to as marine craning amps @ 32°F or M.C.A. @ 32°F. Height 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.

- H. A boost charge should be performed every 6 months when batteries are in storage.
- Weight may vary.













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

