

MOTIVE 24-AES

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MODEL	24-AES
VOLTAGE	12
CAPACITY	76Ah @ 20Hr
MATERIAL	Polypropylene
BATTERY	VRLA AGM / Non-Spillable / Maintenance-Free
COLOR	Maroon
WATERING	No Watering Required

12 VOLT

PHYSICAL SPECIFICATIONS

BCI		TERMINAL TYPE	DIMENSIONS [©] INCHES (mm)			WEIGHT [#] LBS. (kg)	HANDLES	INSTALLATION ORIENTATION
	24 24-AES	6	LENGTH	WIDTH	HEIGHT F	()		Horizontal
24			10.77 (274)	6.84 (174)	8.62 (219)	55 (25)	55 (25)	Plastic Strap

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY ^A MINUTES	CRANKING PE	RFORMANCE	CAPACITY ^B AMP-HOURS (Ah)		ENERGY (kWh)	Internal resistance (m Ω)	SHORT CIRCUIT CURRENT (amps)		
12	@ 25 Amps	C.C.A. ^D @0°F	C.A. ^E @32°F	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
12	137	450	540	67	70	76	84	1.01	-	-

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
48V	24V 36V	12V	SYSTEM VOLTAGE	
	50% of C_{20}		Maximum Charge Current (A)	
7.60	28.80 43.20	14.40	Absorption Voltage (2.40 V/cell)	
4.00	27.00 40.50	13.50	Float Voltage (2.25 V/cell)	
	27.00 40.50	13.50	Float Voltage (2.25 V/cell)	

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	1)

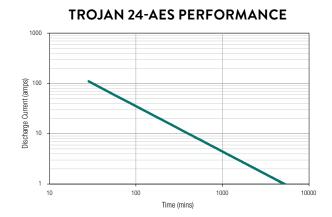
OPERATING TEMPERATURE	SELF DISCHARGE	
-40°F to 140°F (-40°C to +60°C). At temperatures below $32^{\circ}F$ (0°C) maintain a state of charge greater than 60%	Less than 3% per month depending on storage temperature conditions	

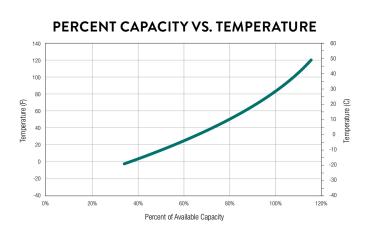
RECYCLE RESPONSIBLY



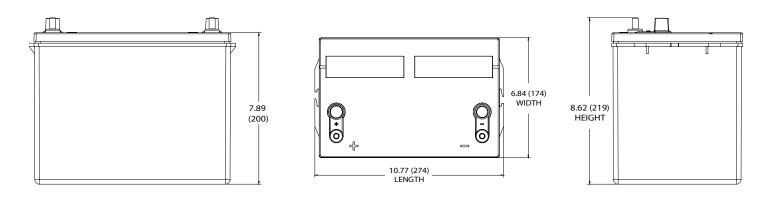
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	CELL	12 VOLT
100	2.14	12.84
75	2.09	12.54
50	2.04	12.24
25	1.99	11.94
0	1.94	11.64





BATTERY DIMENSIONS (shown with DT)



TERMINAL TYPE⁶



Terminal Height Inches (mm) 0.79 (20) Torque Values in-lb (Nm) Stud: 95 -105 (11 - 12) 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.

IEC

- 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 peed 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 Carking 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.
- 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.
 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

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



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