

MOTIVE 31-AES

MODEL	31-AES
VOLTAGE	12
CAPACITY	100Ah @ 20Hr
MATERIAL	Polypropylene
BATTERY	VRLA AGM / Non-Spillable / Maintenance-Free
COLOR	Maroon
WATERING	No Watering Required



12 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	TERMINAL TYPE	DIMENSIONS [©] INCHES (mm)			WEIGHT I LBS. (kg)	HANDLES	INSTALLATION ORIENTATION	
			LENGTH	WIDTH	HEIGHT F	69 (31)		Horizontal	
31	31-AES	M8/DT	12.80 (325)	6.81 (173)	9.37 (238)		69 (31)	69 (31)	Plastic Handle

ELECTRICAL SPECIFICATIONS

VOLTAGE	CRANKING PE	RFORMANCE	CAPACITY ^A MINUTES	CAPACITY ^B AMP-HOURS (Ah)		ENERGY (kWh)	INTERNAL RESISTANCE (m Ω)	SHORT CIRCUIT CURRENT (amps)		
12	C.C.A. ^D @0°F	C.A. ^E @32°F	@ 25 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr	4.90	2555
12	540	648	177	82	92	100	111	1.33	4.80	

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
SYSTEM VOLTAGE	12V	24V	36V	48V
Maximum Charge Current (A)	50% 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				
0.005 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				

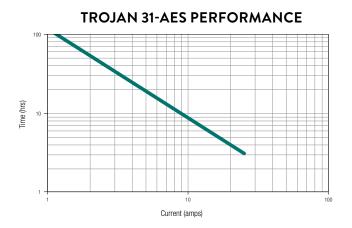
-40°F to 140°F (-40°C to +60°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions

RECYCLE RESPONSIBLY

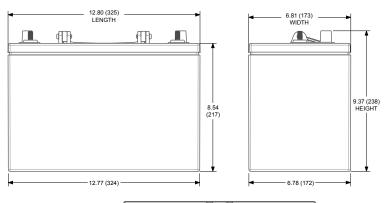


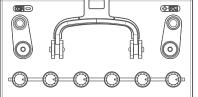
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	CELL	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

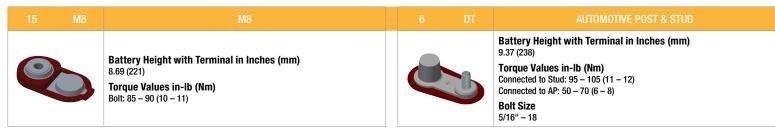


BATTERY DIMENSIONS (shown with DT)





TERMINAL TYPE⁶



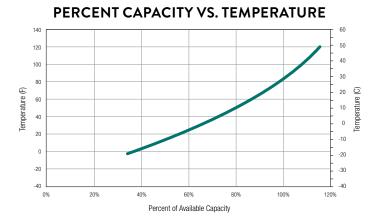
A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are The number of minutes a state if year deriver when discharged at a constant rate at 60 °F (27 °C) and maintain a voltage above 1.75 Vicell. Capacities are based on peak performance. В

- С
- 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. D

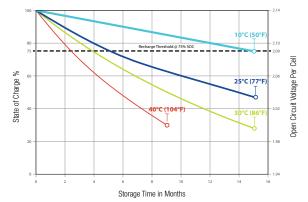




Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.



SELF DISCHARGE VS. TIME[#]



Vicel This is sometimes referred to a main crant and the second and the second and the second at 22 Well. This is sometimes referred to a main crant and any ang on 32 27 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. F G

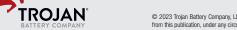
E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voltage above 1.2

- Batteries in storage should be charged when they decline to 75% State of Charge (SOC). Η.
- Weight may vary.

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2023010-31-AES-Datasheet



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