

MOTIVE 27-AES

MODEL	27-AES
VOLTAGE	12
CAPACITY	89Ah @ 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 [#] LBS. (kg)	HANDLES	INSTALLATION ORIENTATION
		_	LENGTH	WIDTH	HEIGHT F	()		Horizontal
27	27-AES	6	12.05 (306)	6.84 (174)	9.32 (237)	66 (30)	Plastic Strap	and Vertical

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY ^A MINUTES	CRANKING PE	RFORMANCE	CAI	PACITY ^B AN	IP-HOURS		ENERGY (kWh)	INTERNAL RESISTANCE (m Ω)	SHORT CIRCUIT CURRENT (amps)
10	@ 25 Amps	C.C.A. ^D @0°F	C.A. ^E @32°F	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
12	158	495	594	77	82	89	99	1.19	-	-

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					

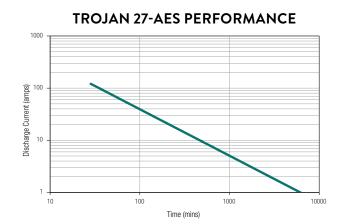
OF ENATING TEMPENATONE	SEEF DISCHARGE
-40°F to 140°F (-40°C to +60°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%	Less than 3% per month depending on storage temperature conditions

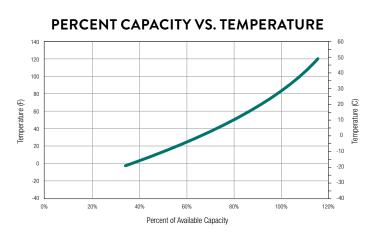
RECYCLE RESPONSIBLY



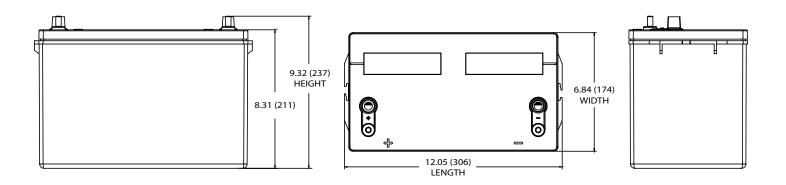
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

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

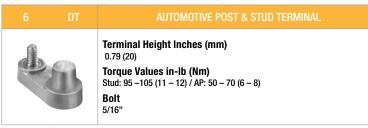




BATTERY DIMENSIONS (shown with DT)



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. Canacities are based on neak performance

- Capacities are based on peak performance. B.
- Capacitors are served on party information of the of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spectral information. 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.
- 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.
 Terminal images are representative only.

Tested in compliance to BCI and IEC standards.

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

H. Weight may vary.

®

TROJAN BATTERY Company with Battery Council International IE(QUALITY SYSTEM CERTIFIED BY DNV



800.423.6569 / +1.562.236.3000 / trojanbattery.com

© 2023 Trojan Battery Company, LLC. All rights reserved. Trojan Battery Company is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Trojan Battery Company reserves the right to make adjustments to this publication at any time, without notice or obligation.