

MODEL **L16-AES**
 VOLTAGE **6**
 CAPACITY **333Ah @ 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 | DIMENSIONS ° INCHES (mm) | | | WEIGHT † LBS. (kg) | HANDLES | INSTALLATION ORIENTATION |
|-----|------------|---------------|--------------------------|------------|-------------|--------------------|--------------|--------------------------|
| | | | LENGTH | WIDTH | HEIGHT † | | | |
| 903 | L16-AES | M8/DT/LT | 11.66 (296) | 6.94 (176) | 16.41 (417) | 121 (55) | Braided Rope | Horizontal and Vertical |
| | | | | | | | | |

ELECTRICAL SPECIFICATIONS

| VOLTAGE | CRANKING PERFORMANCE | | CAPACITY † MINUTES | | CAPACITY † AMP-HOURS (Ah) | | | | ENERGY (kWh) | INTERNAL RESISTANCE (mΩ) | SHORT CIRCUIT CURRENT (amps) |
|---------|----------------------|--------------|--------------------|-----------|---------------------------|-------|-------|--------|--------------|--------------------------|------------------------------|
| | C.C.A. † @0°F | C.A. † @32°F | @ 25 Amps | @ 75 Amps | 5-Hr | 10-Hr | 20-Hr | 100-Hr | 100-Hr | | |
| 6 | - | - | 735 | 206 | 290 | 310 | 333 | 392 | 2.35 | 1.7 | 3650 |
| | | | | | | | | | | | |

CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C) | | | | | |
|---|------------------------|-------|-------|-------|-------|
| SYSTEM VOLTAGE | 6V | 12V | 24V | 36V | 48V |
| Maximum Charge Current (A) | 50% of C ₂₀ | | | | |
| 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 |
|--|--|
| -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 |

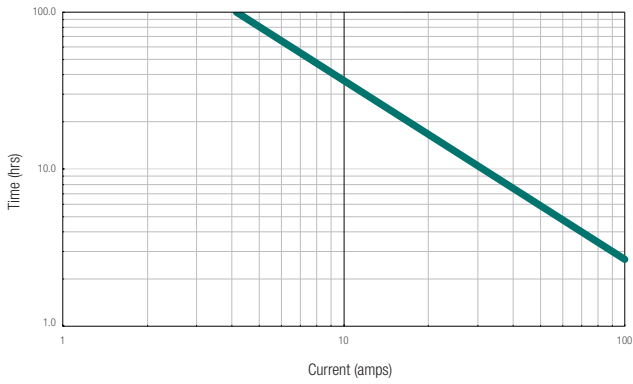
RECYCLE RESPONSIBLY



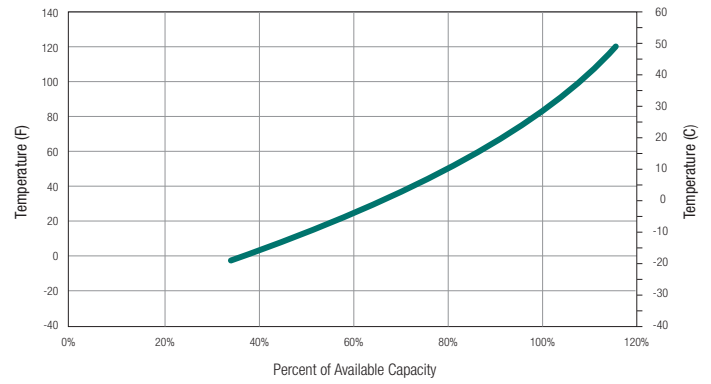
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

| PERCENTAGE CHARGE | CELL | 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 |

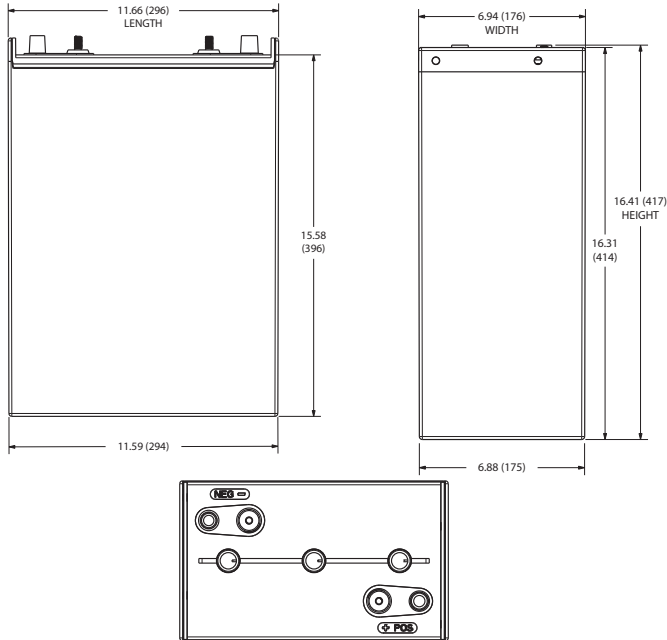
TROJAN L16-AES PERFORMANCE



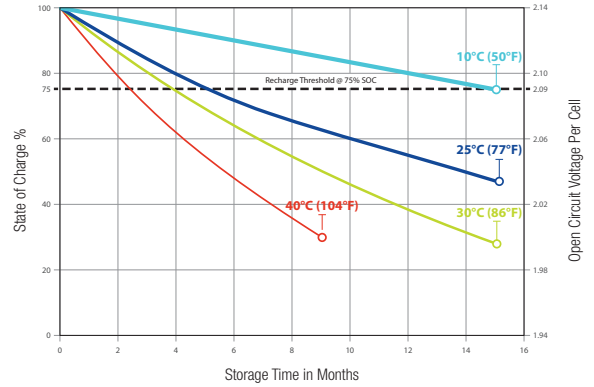
PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS (shown with DT)



SELF DISCHARGE VS. TIME^H



TERMINAL TYPE^G

| 15 | M8 | M8 |
|----|----|--|
| | | <p>Battery Height with Terminal in Inches (mm) 15.97 (406)</p> <p>Torque Values in-lb (Nm) Bolt: 85 – 90 (10 – 11)</p> |
| 15 | M8 | M8 WITH LT ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED) |
| | | <p>Battery Height with Terminal in Inches (mm) 15.15 (385)</p> <p>Torque Values in-lb (Nm) Connection to M8: 85 – 90 (10-11) Connection to LT: 65 – 75 (7.5 – 8.5)</p> <p>Bolt Size M8 x 1.25</p> |

| 6 | DT | AUTOMOTIVE POST & STUD |
|---|----|---|
| | | <p>Battery Height with Terminal in Inches (mm) 16.41 (417)</p> <p>Torque Values in-lb (Nm) Connected to Stud: 95 – 105 (11 – 12) Connected to AP: 50 – 70 (6 – 8)</p> <p>Bolt Size 5/16"</p> |

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



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



800.423.6569 / +1.562.236.3000 / trojanbattery.com

2023003-L16-AES-Datasheet

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