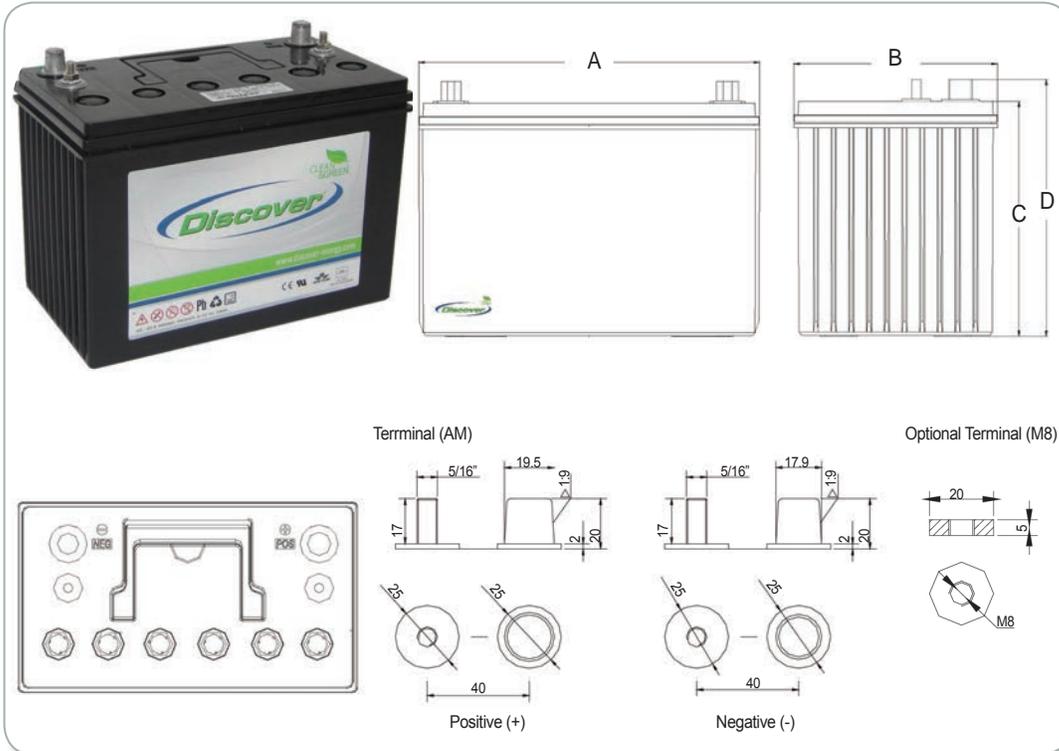


EV27A-A

EV Traction Dry Cell Industrial Battery Block

Discover® EV Series Industrial Batteries provide superior high integrity and reliability for commercial, industrial and private applications. The maintenance-free, thick plate construction, designed for tough applications and repeated deep discharging makes the EV Series the definitive choice for robust Traction applications including Home Medical Equipment (HME), Electric Vehicle, Automated Guided Vehicles (AGV), Aerial Lifts, Floor Cleaning Equipment, Robotics, Materials Handling, Renewable Energy and Marine / RV applications.



Mechanical Specifications

| | | |
|--------------------|--------------------|--------|
| Industry Reference | 27 BCI | |
| Length [A] | 12.1 in | 308 mm |
| Width [B] | 6.8 in | 172 mm |
| Height [C] | 8.4 in | 212 mm |
| Total Height [D] | 9.1 in | 232 mm |
| Weight | 64 lbs | 29 kgs |
| Terminal (Opt'l) | AM (M8) | |
| Terminal Torque | 7.0-8.5 (9.5-10.5) | |
| Cells | 6 cell | |

Electrical Specifications

| | | |
|-----------------------------|-------------------------------------|-------------------|
| Volts | 12 V | |
| 80% DOD Voltage Cutoff | 11.4 V | |
| RINT | 3.80 mOhms | |
| Short Circuit (68°F / 20°C) | 2930A | |
| Self Discharge | <3% of capacity month @ 68°F / 20°C | |
| Cranking Amps* | 830 @ 32°F / 0°C | 690 @ 0°F / -18°C |
| Standard Charge | 50°F / -10°C to 122°F / 50°C | |
| Standard Discharge | -4°F / -20°C to 122°F / 50°C | |
| Maximum Discharge** | -40°F / -40°C to 140°F / 60°C | |

*CRANKING AMPS: Cranking Amps data is provided as a reference only. Specific application sizing and life factors must be considered when using deep cycle product in a starting application.

**CAUTION: Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures.

Electrical Specifications

| Amp Hours (AH) | | | | | | Minutes of Discharge | | | | |
|----------------|------|------|-----|-----|-----|----------------------|------|------|------|-------|
| 100HR | 20HR | 10HR | 5HR | 3HR | 1HR | @25A | @56A | @75A | @85A | @100A |
| 114 | 100 | 95 | 87 | 78 | 65 | 195 | 73 | 50 | 45 | 35 |

| Max Charge / Discharge Currents | Peak (5 seconds) | Peak (10 seconds) | Max Continuous | Recommended Max Continuous |
|---------------------------------|------------------|-------------------|----------------|----------------------------|
| Charge | 1C10Hr | 0.75C10Hr | 0.5C10Hr | 0.3C10Hr |
| Discharge | 2C10Hr | 1.5C10Hr | 1C10Hr | 0.5C10Hr |

Updated October 24, 2011

EV Series Features & Benefits

- Maintenance Free Clean & Green® choice of Original Equipment Manufacturers.
- Traction heavy duty grid design (PbCaSn) gives consistent active material adhesion and corrosion resistance.
- High impact reinforced copolymer and polypropylene cases with flat top designs.
- A recognized gas recombination efficiency of greater than 99.9%.
- Multiple terminal, configuration options and carrying handles available with most models.
- Classified as a non-spillable battery and is not restricted for transportation by:
 - Air (IATA/ICAO provision 67)
 - Surface (DOT-CFR-HMR49)
 - Water (per IMDG amendment 27).
- Compatible with sensitive electronic equipment.
- Comprehensive design to conserve resources, improve safety and reduce waste. 98% recyclable.

Certifications and Standards

Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards, including:

- IEC60896-21/22
- BS EN 60254-1:2005
- AS/NZS 4029.2:2000 BS EN 60254-1:2005 (MOD).

Discover® and its facilities and products are certified to multiple standards:

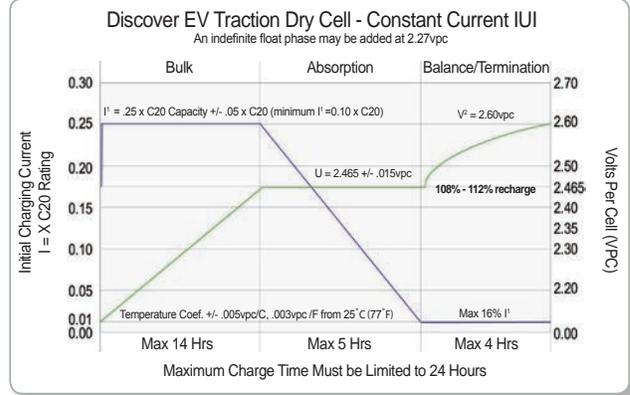
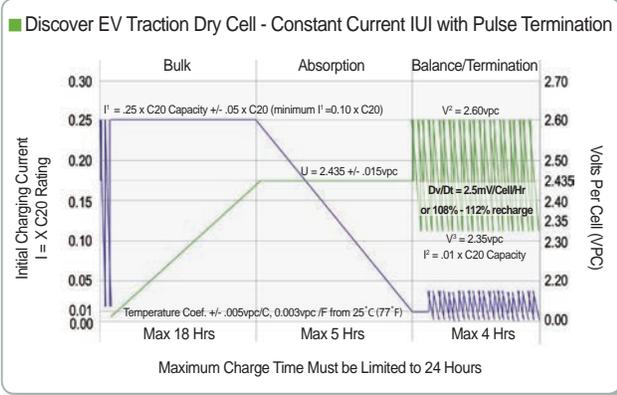
- ISO, UL, QS, and TUV standards
- ETTS Germany
- Euro Bat classification for Environmental Stewardship Standards.



Contact Us

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Graphs



NOTE: This algorithm uses a pulse termination criterion. As a safety precaution during the Finish phase, if the average cell voltage, or volts per cell (vpc), exceeds V^2 and the charger output has been on for more than 30 seconds, the output is shut off until the vpc falls to V^3 . The finish phase then resumes and this "pulsing" continues until the target overcharge (108% - 112%) is reached.

