

Discover[®]
Innovative Battery Solutions

DRY CELL AGM
Traction Industrial



COMPANY OVERVIEW

Discover Battery is the largest global provider of DRY CELL and GEL CELL batteries to Original Equipment Manufacturers.



Discover works with OEM's & end users to

- Eliminate user-related issues
- Reduce maintenance costs
- Provide productivity and performance gains



Discover DRY and GEL CELL batteries are:

- Sealed Non-Spillable, Maintenance-Free
- Purpose-built for maximum runtimes and service life
- Purpose-built to withstand demanding applications



Discover offers a broad range of VRLA products

- HIGH CYCLE VRLA Batteries
 - Dry Cell (AGM Technology)
 - Gel Cell (Gel Technology)
- LIGHT CYCLE / STAND-BY VRLA Batteries
 - Float Standby and General Purpose
 - Stationary and Mobile Deep Cycle
 - Front Terminal and High Rate



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DRY CELL TRACTION / INDUSTRIAL

Discover® DRY CELL AGM Traction Industrial batteries outperform traditional Flooded, AGM, and GEL deep-cycle batteries in demanding traction and industrial applications.

DRY CELL AGM Traction Industrial batteries:

- Deliver long runtimes at high operational current
- Withstand deep discharges
- Power equipment used multiple times a day
- Have been trusted for more than 10 years by world-class OEM's
- Come with specific charge algorithms to optimize performance



CORE FEATURES (5)

ENHANCED ALLOYS



- Thick plate construction with graphite enhanced plate alloys delivers maximum runtime over operational life

CARBON BOOST



- Carbon additives increase duty cycle performance, battery charge acceptance, and partial state of charge operation

AUTOMATIC THROUGH-THE-PARTITION WELD



- Improved product consistency and quality, less wasted lead than manual welding process (key industry models)
- Supports high current loads and lowers internal resistance

POLYPROPYLENE CASE



- High heat resistance and durability (key industry models)
- High precision pressure relief valves reduce water loss and extend life
- Integrated flame arrestors prevent fire and explosion

HYDROPOLYMER



- Organic capillary separators with hydropolymer electrolytes resist dry-out and prevent thermal runaway
- Maintains performance characteristics over operational life



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ENHANCED RUNTIME

- High Amp Hour capacity
- High operational voltage over lifetime
- Delivers 80% DoD to 1.9 VPC



EXTENDED SERVICE LIFE

- Long life superior to Flooded/Gel/AGM deep-cycle batteries
- 550+ cycles 70% DoD (IEC 254-1 Traction Lead-Acid)
- 350+ cycles 100% DoD (DIN 43 539 VRLA)



EXTREME TEMPERATURES

- High temperature life superior to AGM
- Low temperature operation superior to Flooded/AGM/ Gel



EXTREME VIBRATION RESISTANT

- Vibration resistance superior to AGM/Gel
- Vibration shock tested (IEC 61373, DIN EN 61373, SAE J537)



CORE BENEFITS (7)



RESILIENCE

- Partial state of charge operation superior to AGM
- Intense duty cycling superior to AGM/Gel
- Overcharge and over-discharge resilience superior to AGM
- Compatible with AGM/Gel semi-traction charge profile



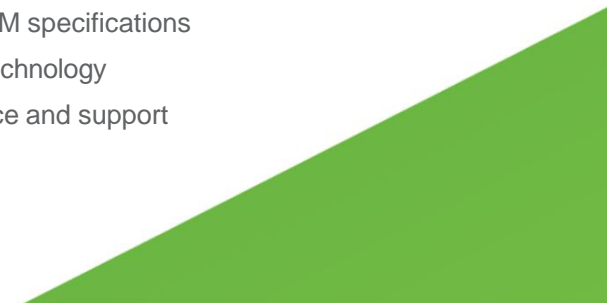
RELIABLE, SAFE, CERTIFIED

- Valve Regulated Lead-Acid, DRY CELL AGM
- Maintenance-free, nonspillable, no-gassing
- Spark and explosion tested (SAE J1495)



TRUSTED OEM PART

- Exceeds OEM specifications
- Innovative technology
- Global service and support



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POLYPROPYLENE CASE

- High precision pressure relief valves reduce water loss and extend life
- Integrated flame arrestors to prevent fire and explosion
- High heat resistance and durability



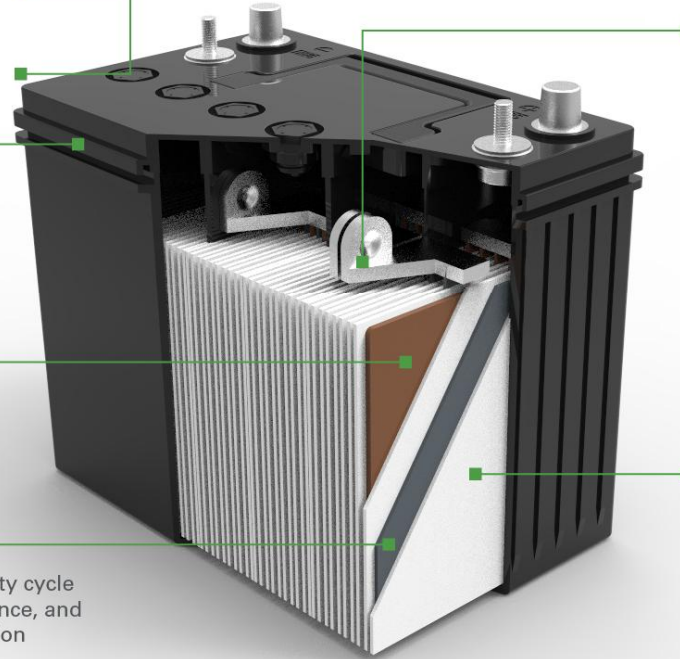
ENHANCED ALLOYS

- Thick plates with graphite enhanced alloys deliver maximum runtime over operational life



CARBON BOOST

- Carbon additives increase duty cycle performance, charge acceptance, and partial state of charge operation



AUTOMATIC THROUGH-THE-PARTITION WELD

- Improved intercell weld consistency and less lead waste than manual welding process
- Supports high current loads and lowers internal resistance



HYDRO POLYMER

- Organic capillary separators with hydropolymer electrolytes resist dry-out and prevent thermal runaway
- Maintains performance characteristics over operational life