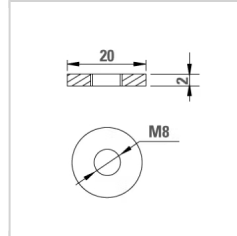
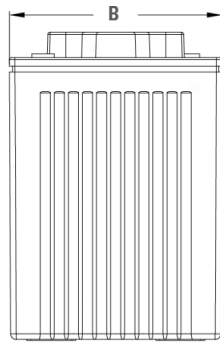
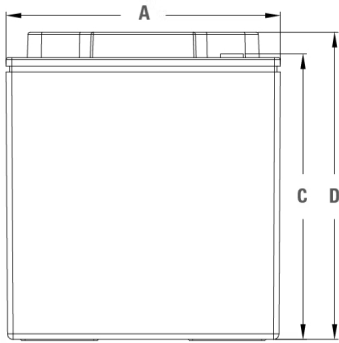




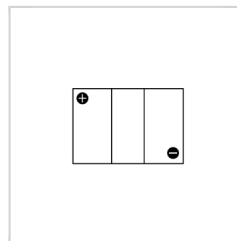
DRY CELL Traction Industrial Battery

Discover[®] DRY CELL Traction Industrial batteries outperform traditional Flooded, AGM, and Gel deep-cycle batteries in demanding traction and industrial applications. The batteries are designed to deliver a long runtime, high operating current and withstand deep discharge and are ideal for powering equipment that is used multiple times a day.

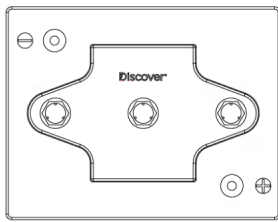
DRY CELL Traction Industrial batteries have been used and trusted for more than ten years by the world's largest industrial Original Equipment Manufacturers. Specific charge algorithms are available that support optimal battery performance and longevity.



TERMINAL



LAYOUT



MECHANICAL SPECIFICATIONS

Industry Reference	BCI: GC6 DIN	
Length A (in/mm)	9.6	244
Width B (in/mm)	7.4	189
Height C (in/mm)	10	254
Total Height D (in/mm)	10.8	275
Weight (lbs/kgs)	70.4	32
Terminal *	F10M8	
Technology	DRY CELL AGM, VRLA	

NOTE 1: Dimensions have a ±2 mm (0.08 in) tolerance. Weights may vary.

NOTE 2: Refer to [terminal guide](#) on website for torque values.

PERFORMANCE SPECIFICATIONS

Amp Hours (AH)		
3 HR	5 HR	20 HR
170	200	230

3 HR: 1.70VPC; 5 HR: 1.75VPC; 20 HR: 1.80VPC. All at 25°C/77°F

ELECTRICAL SPECIFICATIONS

Voltage (V)	6
Voltage Cutoff (80% DOD)	5.70
Internal Resistance (mΩ)	2
Short Circuit (A) (20°C / 68°F)	4100
Self-Discharge (20°C / 68°F)	2-3% per mo
Charge Temperature	Min: -10°C (14°F) Ma
Discharge Temperature	Min: -40°C (-40°F) Ma
Storage Temperature	Min: -20°C (-4°F) Ma

NOTE 3: Extra considerations must be given when designing systems for use at maximum temperatures.

NOTE 4: Internal Resistance is approximate.

Minutes of Discharge				
@25A	@56A	@75A	@85A	@100A
495	195	140	110	92

FEATURES

HYDRO POLYMER

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

ENHANCED ALLOYS

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

CARBON BOOST

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

AUTOMATED THROUGH-THE-PARTITION WELD

- Improved intercell weld consistency, and less lead waste than manual welding process (key models)
- Supports higher 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

BENEFITS

ENHANCED RUNTIME

- High amp hour capacity
- High operational voltage over lifetime
- Delivers 80% DoD above 1.9VPC

EXTENDED SERVICE LIFE

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

RESILIENCE

- Partial stage 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

EXTREME TEMPERATURES

- High temperature life superior to AGM
- Low temperature operation superior to FLA / AGM / Gel batteries

EXTREME VIBRATION RESISTANCE

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

OEM TRUSTED

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

RELIABLE AND SAFE

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

CERTIFIED QUALITY

Discover® manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards.

Designed in accordance with and published in compliance with applicable standards, including:

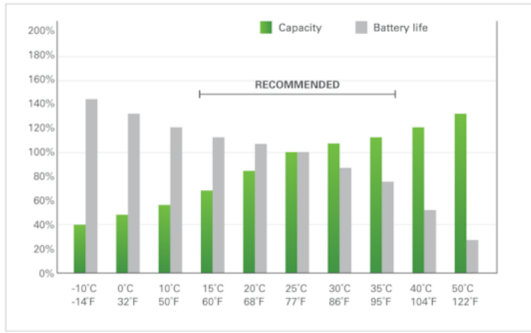
- IEC 60254-1. Lead-Acid Traction
- DIN 43 539. VRLA
- SAE J537. Storage
- UL, CE Health Safety Certified

SHIPPING CLASSIFICATION

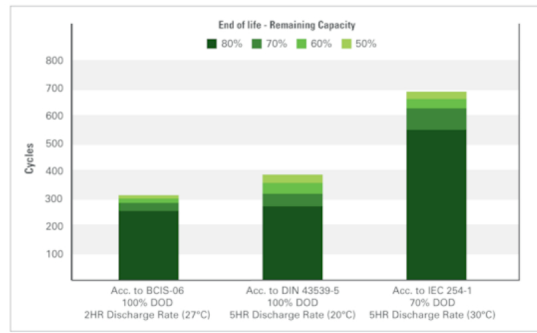
- Classified as a nonspillable battery
- Without restriction for transport by Sea (IMDG amendment 27)
- Without restriction for transport by Air (IATA/ICAO provision 67)
- Without restriction for transport by Ground (STB, DOT-CFR-HMR49)



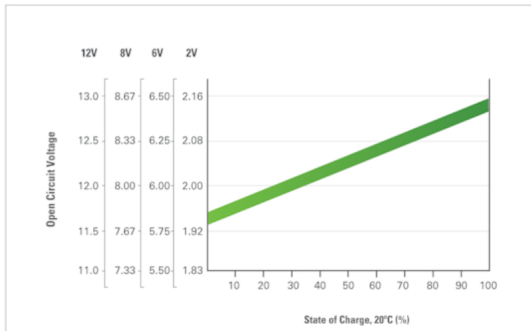
Temperature Effects on Capacity



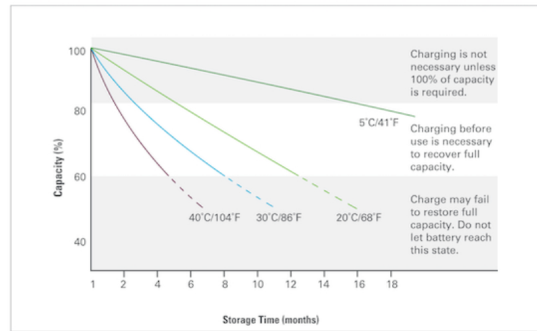
Test Standards and Cycle Life



Open Circuit Voltage in Relation to SOC (20°C)



Self-Discharge Characteristics



IUI Pulse Charge Profile

Constant Current (IUI) Charge Profile