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EV Traction
Dry Cell Battery
Technology



Innovative Technology.
Proven Expertise.
Best in Class Solutions.



SAVE
on maintenance



MORE TIME
for R & R



Move your people
FURTHER



Store your
CLEAN ENERGY



Clean your floors
FOR LONGER

www.discover-energy.com

Innovative Power Solutions

High performance comes standard.

Superior performance. Engineered to last.

RESPONSIBLE Solution

- Non-gassing and non-spillable
- Maintenance-free
- Approved for environmentally sensitive areas
- Safeguards against spill related injuries and damage
- Eliminates corrosion due to off-gassing
- Does not require ventilated charging room
- Replacement sizes for all standard hazardous batteries

SMART Savings

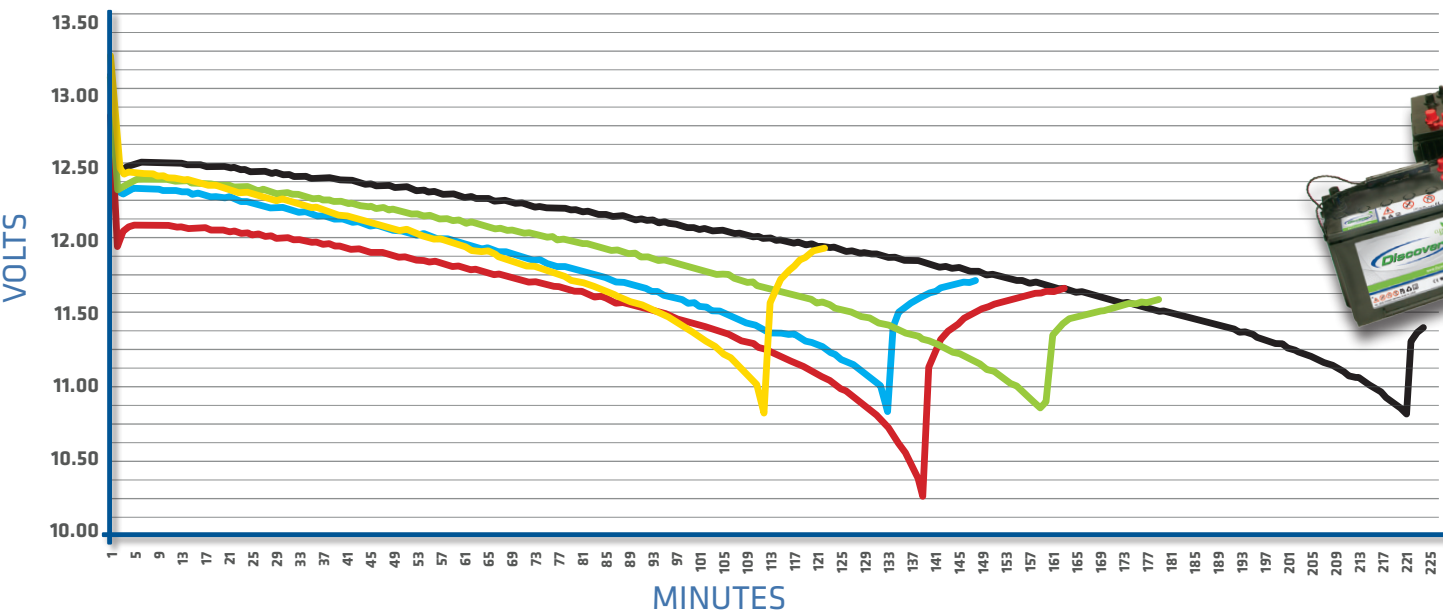
- Designed for longer run times
- Designed for high-rate, long-duration discharges
- Designed for long life
- Shorter charging time and good charge retention
- Opportunity charging recommended
- Save costs on labor
- Save replacement costs on poorly maintained batteries
- Protects your equipment from corrosion damage

ENVIRONMENTAL Sustainability

- Recyclable and made with recycled products
- Exempt from HAZMAT shipping requirements
- Compliant with LEED (USGBC)
- Compliant with OSHA Occupational Health and Safety Regulations
- Delivers maximum maintenance-free life without additional service resources
- Comprehensive design to conserve resources, improve safety and reduce waste
- Clean & Green choice of Original Equipment Manufacturers

Discover® outperforms high quality deep cycle competition in useable capacity at high sustained discharge currents

12 Volt Battery Run times in Minutes @ 32.5 Amp Discharge



Manufacturers Published Capacities:

- | | |
|---------------------------------------|---|
| EV27A-A 12V 100AH / 20HR, 87AH / 5HR | Competitor A Gel 12V 97AH / 20HR, 85AH / 6HR |
| EV31A-A 12V 115AH / 20HR, 96AH / 5HR | Competitor B Wet 12V 130AH / 20HR, 99AH / 5HR |
| EV12A-A 12V 140AH / 20HR, 120AH / 5HR | |

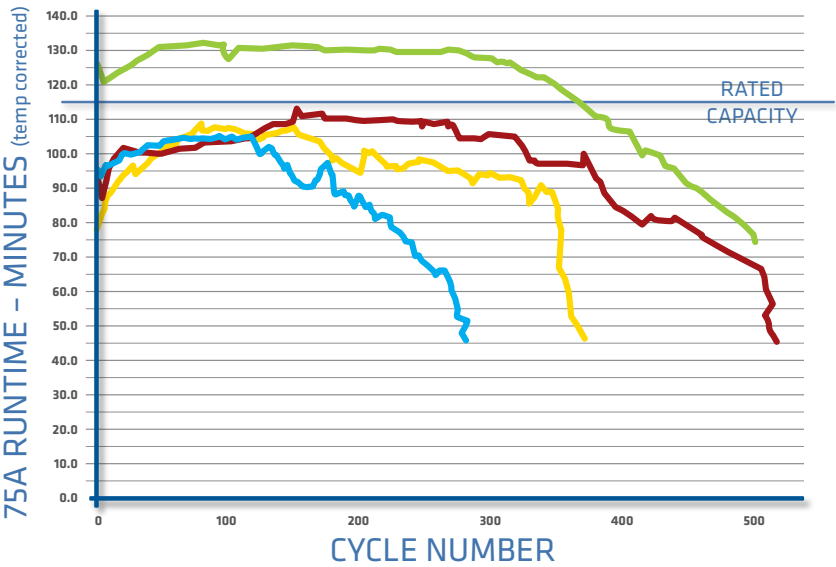


Maintenance-free Technology:

Discover® EV Traction Dry Cell Products have a recognized gas recombination efficiency of greater than 99.9% and are sealed, non spillable and maintenance-free.

Discover® EV Traction Dry Cell Outperforms Competitors

6V Deep-Cycle Battery Cycle Life Test



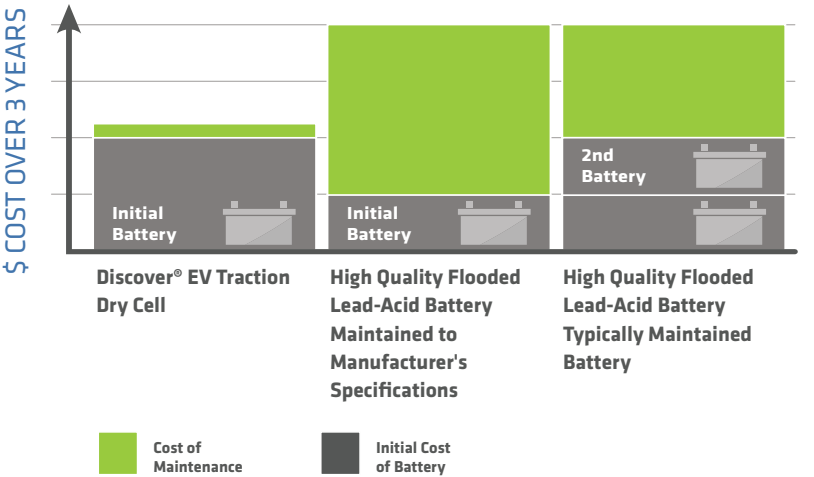
Manufacturers Published Rates:

	Capacity @75A	Capacity @ 20 Hour Rate	Cycle Life to 80% of Original Capacity	Cycle Life to 50% of Original Capacity
Discover EV27A-A (12V 100AH)	115 minutes	225 AH	180	235
Discover EV31A-A (12V 115AH)	114 minutes	216 AH	325	375
Discover EV12A-A (12V 140AH)	115 minutes	225 AH	375	520
Competitor A Gel (12V 97AH)	125 minutes	220 AH	420	-

As tested in Accordance with BCI S-06 specification for cycle life testing of Electric Vehicle and Cycling Capacity.

Discover® EV Traction Dry Cell outperforms high quality Deep Cycle Competitors in peak capacity, sustained capacity and useable life to 80% of original capacity.

Compare your total cost of ownership:



EV Traction Dry Cell Series

	ELECTRICAL CHARACTERISTICS													MECHANICAL CHARACTERISTICS ^D								
TYPE NO.	INDUSTRY REFERENCE	AMP HOURS						MINUTES OF DISCHARGE					80% DOD Voltage Cutoff ^C	LENGTH		WIDTH		HEIGHT ^E		WEIGHT ^F		TERMINAL (Optional)
		100 HR ^B	20 HR ^A	10 HR ^B	5 HR ^B	3 HR ^B	1 HR ^B	@ 25A ^B	@ 56A ^B	@ 75A ^B	@ 85A ^B	@ 100A ^B		IN	MM	IN	MM	IN	MM	LBS	KGS	
6 VOLT EV TRACTION DRY CELL																						
EVGT6A-A	GC6H	288	260	240	222	200	150	575	225	155	135	110	5.7 V	10.2	260	7.1	180	10.7	272	79	36	M8 (AM)
EVGH6A-A	GC6	258	230	215	200	175	135	510	195	138	115	95	5.7 V	10.2	260	7.1	180	9.9	251	71	32	M8 (AM)
EVGC6A-A	GC6	240	220	200	190	170	130	475	185	125	107	88	5.7 V	10.2	260	7.1	180	10.5	267	66	30	AM (M8)
EVGC6A-B	GC6	222	207	185	165	150	112	420	156	110	95	77	5.7 V	10.2	260	7.1	180	10.5	267	63	29	AM (M8)
EV627A-A	6V 27	240	210	200	180	165	130	470	180	125	105	85	5.7 V	12.0	306	6.6	168	8.9	225	63	29	M8
EV506A-230	DIN 6V	246	230	210	195	165	130	485	185	130	110	92	5.7 V	9.6	244	7.3	185	10.8	275	66	30	M8 (SAE)
EV506A-210	DIN 6V	228	210	190	170	155	118	440	170	118	100	80	5.7 V	9.6	244	7.3	185	10.8	275	63	29	M8 (SAE)
EV250A-A	901-250	288	260	240	220	180	144	572	228	149	123	98	5.7 V	11.6	295	7.1	180	11.7	296	83	38	AM
EV305A-A	902-305	366	330	305	285	255	210	770	315	220	190	160	5.7 V	11.6	295	7.1	180	14.4	365	107	49	AM (M8)
EVL16A-A	903-L16	438	390	365	335	290	240	915	375	265	235	190	5.7 V	11.6	295	7.1	180	16.8	426	121	55	AM (M8)
8 VOLT EV TRACTION DRY CELL																						
EVGC8A-A	GC8	180	160	150	130	115	90	320	115	80	65	50	7.6 V	10.2	260	7.1	180	10.8	286	66	30	AM (M8)
EVGT8A-A	GT8	216	185	180	156	140	115	410	160	110	90	70	7.6 V	10.2	260	7.1	180	11.6	300	82	37	M8 (AM)
EV805A-A	-	252	235	210	195	180	145	490	195	140	115	100	7.6 V	10.2	260	7.1	180	13.9	352	97	44	M8 (AM)
12 VOLT EV TRACTION DRY CELL																						
EV512A-24	-	29	26	24	22	20	16	31	-	-	-	-	11.4 V	6.5	166	6.9	175	4.9	125	19	9	M5 (F4)
EVU1A-A	U1	37	33	31	28	25	20	45	17	12	9	7	11.4 V	7.7	195	5.1	130	7.1	180	23	11	F7 (M6)
EV512A-45	-	54	50	45	40	35	29	75	27	18	15	12	11.4 V	7.8	197	6.5	165	6.7	170	30	14	M6 (F4)
EV22A-A	22	66	58	55	50	44	35	105	37	25	22	18	11.4 V	9.0	229	5.4	138	8.8	224	39	18	M6 (F5)
EV34A-A	34	72	65	60	55	48	39	115	42	28	25	22	11.4 V	10.2	258	6.6	167	7.8	198	43	20	SAE (M6)
EV512A-55	47-L2	64	55	52	50	42	34	100	36	23	21	18	11.4 V	9.5	242	6.9	175	7.5	190	42	19	SAE (M6)
EV512A-70	48-L3	77	68	64	60	51	41	118	48	33	26	21	11.4 V	10.9	278	6.9	175	7.5	190	49	22	SAE (M8)
EV512A-90	49-L5	99	87	83	80	68	54	169	60	40	34	25	11.4 V	13.9	353	6.9	175	7.5	190	60	27	SAE (M8)
EV24A-A	24 BCI	94	85	78	72	66	54	155	57	38	32	27	11.4 V	10.2	258	6.8	172	8.9	226	53	24	AM (M8)
EV512A-85	24 JIS	94	85	78	72	66	54	155	57	38	32	27	11.4 V	10.2	258	6.5	166	8.5	215	53	24	M8 (F9)
EV27A-A	27 BCI	114	100	95	87	78	65	195	73	50	45	35	11.4 V	12.1	308	6.8	172	9.1	232	64	29	AM (M8)
EV512A-100	27 JIS	114	100	95	87	78	65	195	73	50	45	35	11.4 V	12.0	306	6.7	169	8.3	211	63	29	M8
EV31A-A	31 BCI	132	115	110	96	88	72	235	89	63	52	42	11.4 V	13.0	330	6.8	172	9.3	236	72	33	AM (M8)
EV31A-B	31 BCI	126	110	105	92	80	65	205	72	50	42	36	11.4 V	13.0	330	6.8	172	9.3	236	68	31	AM (M8)
EV512A-115	31 JIS	130	115	108	95	84	70	225	85	60	50	40	11.4 V	13.0	330	6.7	171	8.7	220	68	31	M8 (F5)
EVGT12A-A	GC 12	132	120	110	95	86	76	220	88	57	48	40	11.4 V	10.2	260	7.1	180	11.8	300	77	35	M8 (AM)
EV12A-A	31 Tall	156	140	130	120	108	90	300	110	80	66	55	11.4 V	12.9	327	7.1	180	10.8	274	87	40	AM (M8)
EV12A-B	31 Tall	144	130	120	105	95	80	255	90	65	58	48	11.4 V	12.9	327	7.1	180	10.8	274	80	37	AM (M8)
EV512A-150	DIN - 5SHP	168	150	140	130	117	92	320	120	88	75	60	11.4 V	13.4	341	6.8	173	11.3	288	88	40	M8
EV512A-160	-	188	165	156	140	125	105	345	134	94	79	65	11.4 V	19.1	485	6.8	172	9.4	240	100	46	M8 (F5)
EV185A-A	921-185	252	230	210	198	175	135	490	200	135	115	95	11.4 V	15.2	386	7.1	180	14.0	356	139	63	AM (M8)
EV4DA-A	4D BCI	264	235	220	200	175	135	515	205	140	120	100	11.4 V	20.6	524	8.9	225	9.5	242	138	63	AT (M8)
EV4DA-B	4D BCI	252	215	210	180	160	125	480	185	125	105	90	11.4 V	20.6	524	8.9	225	9.5	242	132	60	AT (M8)
EV8DA-A	8D BCI	312	280	260	240	215	170	630	270	185	160	130	11.4 V	20.6	522	10.8	275	9.5	242	172	78	AT (M8)
EV8DA-B	8D BCI	276	240	230	205	185	150	520	210	145	125	105	11.4 V	20.6	522	10.8	275	9.5	242	163	74	AT (M8)
EV512A-215	-	240	215	205	180	165	130	405	155	105	85	75	11.4 V	20.9	530	8.2	209	8.6	218	132	60	M8 (F16)
EV512A-235	-	258	235	215	200	185	145	515	200	150	120	95	11.4 V	20.6	522	9.4	238	9.4	240	137	62	F16 (M8)
EV512A-260	-	285	260	230	215	195	150	565	240	165	145	110	11.4 V	20.5	520	10.6	269	9.4	240	168	76	M8 (F16)
EV512A-115FT	-	125	114	100	96	89	78	215	85	65	60	50	11.4 V	20.0	508	4.3	110	9.4	238	72	33	M8
EV512A-160FT	-	180	165	150	140	124	110	350	145	100	90	73	11.4 V	21.7	552	4.3	110	11.6	295	108	49	M8
EV512A-210FT	-	216	205	180	165	150	125	435	165	120	103	83	11.4 V	21.5	546	4.9	125	12.7	323	132	60	M8

DISCOVER® BATTERY LABEL GUIDE

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Do not add water. Do not add electrolyte. Discover® products have a recognized gas recombination efficiency of greater than 99.9% and are sealed, non-spillable and maintenance-free.
- 

Do not tamper with product labeling, container or vents. Warranty is VOID if product is tampered with.
- 

Do not throw in the garbage. Discover® is a 98% recyclable product and must be processed via a recognized recycling agency.
- 

High voltage. Risk of shock. Do not touch uninsulated terminals or connectors.
- 

More detailed specifications and service instructions are located at: www.discover-energy.com.
- 

This product must be recycled and is made of recycled products. Contact a Discover® representative for collection and recycling.
- 

Contains lead. California Proposition 65 Warning: Battery posts, terminals, and related accessories contain lead and lead components, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

CERTIFICATIONS

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
- Not restricted for transport:
 - Air (IATO/ICAO - provision 67)
 - Surface (DOT-CFR-HMR49)
 - Water (IMDG amendment 27)



A The number of amp hours (AH) a battery can deliver when discharged at a constant rate to 1.75vpc at 27 °C. Capacities are based on peak performance.

B The nominal capacity in amperes (AH - Amp Hours) or discharge time in minutes provided when discharged at a constant rate. Ratings are tested to and based on industry prescribed guidelines.

C Recommended Operating Low Voltage Cutoff reference representing a Depth of Discharge equal to no more than 80% of nominal capacity.

D Mechanical characteristics may vary depending upon terminal types and handles used and are subject to change without notice. Please verify.

E Height from the bottom of the battery to the highest point with standard terminal option. May vary depending on actual terminal type. Weights are approx.

Building excellence in every detail



Discover® has exact Dry Cell Replacements. Without modifying your battery compartment or performance, use our Clean & Green Solution to improve your environmental footprint.

EFFICIENT

- Shorter charging time compared to standard flooded technology
- High charge retention rate of 97% to 99% per month
- No off-gassing with 99.9% efficient gas recombination
- Traction plate construction protects against premature deep discharge damage

DURABLE

- 99.99% pure heavy-duty lead calcium design for extended grid life
- Designed for tough applications and repeated deep discharging
- High impact reinforced cases that are shock and vibration resistant
- Durable copper and stainless steel terminals for high conductivity
- Higher active material to acid ratios provides longer battery life than standard Deep Cycle technology

EASY TO USE

- Increased performance within standard footprints
- Maintenance-free with low self discharge rates
- Easily shipped as Non-Hazardous goods without restriction
- Operational in a wide range of environmental conditions
- Compatible with sensitive electronic equipment
- Clean & Green® choice of Original Equipment Manufacturers

DEPENDABLE

Construction Features

- Multiple voltage options available within the same footprint
- High impact reinforced copolymer and polypropylene cases with flat top designs
- Thermally welded case-to-cover bonds
- Traction heavy Duty grid design (PbCaSn) gives consistent active material adhesion and corrosion resistance.
- Tank formed plates ensure that all cells have equally matched capacity
- Double insulating micro porous glass fiber separators for consistent performance and conductivity
- Tightly packed and compressed plates to prevent plate separation and guard against vibration damage
- Multiple terminal and configuration options
- Carrying handles with most models



Compare for yourself

HIGH QUALITY DEEP CYCLE TECHNOLOGIES	FLOODED	GEL	AGM	TRACTION GEL	EV TRACTION DRY CELL
PERFORMANCE & VALUE					
Designed for longer run times	✓	✗	✗	✗	✓
Designed for high-rate/long duration discharges	✗	✗	✗	✓	✓
Designed for long life	✓	✗	✗	✓	✓
Good charge retention	✗	✓	✓	✓	✓
Shorter charging time	✗	✗	✓	✗	✓
Maintenance Required: A. Inspection B. Cleaning C. Watering	OFTEN A, B, C	PERIODIC A	PERIODIC A	PERIODIC A	PERIODIC A
Initial purchase price	\$	\$\$	\$\$\$	\$\$\$\$	\$\$\$
Lowest cost to own	✗	✗	✗	✗	✓
HEALTH & SAFETY					
Non-Gassing / Non-Spillable	✗	✓	✓	✓	✓
HVAC regulations compliant	✗	✓	✓	✓	✓
Eliminates corrosion due to off-gassing	✗	✓	✓	✓	✓
Does not require ventilated charging rooms	✗	✓	✓	✓	✓
Safeguards against spill-related injuries & damage	✗	✓	✓	✓	✓
Opportunity charging recommended	✗	✗	✓	✗	✓
OSHA 1926.441 regulations compliant *	✗	✓	✓	✓	✓
CONSTRUCTION					
Designed with thickest plates	✗	✗	✗	✓	✓
Designed with the highest oxide densities	✗	✗	✗	✓	✓
Flame arrested venting system - Standard	✗	✗	✗	✓	✓
Vibration resistant	✗	✓	✓	✓	✓
Highest active material to acid ratio	✗	✗	✗	✓	✓
Widest selection - Deep Cycle/Traction footprints	✗	✗	✗	✗	✓
ENVIRONMENTAL SUSTAINABILITY					
Recyclable and made with recycled products	✓	✓	✓	✓	✓
Designed for use in sensitive areas	✗	✓	✓	✓	✓
Exempt from HAZMAT Shipping requirements **	✗	✓	✓	✓	✓
Compliant with LEED (USGBC) ***	✗	✓	✓	✓	✓
Compliant with OSHA Occupational Health & Safety Regulations	✗	✓	✓	✓	✓
Delivers maximum Maintenance-Free life without additional service resources	✗	✗	✗	✓	✓
Comprehensive design to conserve resources, improve safety and reduce waste ****	✗	✗	✗	✓	✓

* OSHA 1926.441 Refers to U.S. Department of Labor, Occupation Safety and Health Administration (visit www.osha.gov).

** Discover® conforms to the IATA non-spillable battery requirements in the code of federal regulations 49 (CFR 49) Section 173.159 (d)

*** USGBC - LEED Green Building Council - EQ 3.7 - Green Cleaning, Sustainable Cleaning Equipment referencing “non-gassing” battery product requirement.

**** For a copy of the Discover® Clean & Green® Statement and to calculate and compare your total cost of ownership visit www.discover-energy.com. This comparison data assumes High Quality, Deep Cycle and Industrial Traction batteries only.