Discover®

Innovative Battery Solutions

DRY CELL | GEL CELL

PRODUCT OVERVIEW

PRODUCT FEATURES

DRY CELL

ENHANCED ALLOYS

- Thick Plate Construction with Graphite Enhanced Plate Alloys Deliver Maximum Runtime over Operational Life

CARBON BOOST

- Carbon Additives Increase Intense Duty Cycle Performance, Battery Charge Acceptance and PSOC

AUTOMATED THROUGH-THE-PARTITION WELD

- Through-the-Partition Welds Improve Manufacturing Consistency
- Sustains High Current Draws
- Lowers Internal Resistance
- Reduces Defects and Wasted Lead than Manual Over-the-Partition Wels

POLYPROPYLENE CASE *

- Integrated Flame Arrestors to Prevent Fire and Explosion
- Pressure Relief Valves with Low Open/Close Tolerance to Reduce Water Loss and Extend Cycle Life
- Higher Heat Resistance and Durability, Lighter Weight than ABS Case

HYDRO POLYMER

- Organic Capillary Separator Technology Fully Saturated with Bi-Polar Hydrophilic Polymer Electrolytes Deliver Extra Electrolyte Volume
- Resist Premature Dry-out and Prevents Thermal Runaway
- Maintains High Performance Characteristics Across Operational Life
- Absorbed Glass Mat technology with No free flowing Acid/Electrolyte

GEL CELL

ENHANCED ALLOYS

- Thick Plate Construction with Graphite Enhanced Plate Alloys Deliver Maximum Runtime over Operational Life

CARBON BOOST

- Carbon Additives Increase Intense Duty Cycle Performance, Battery Charge Acceptance and PSOC

AUTOMATED THROUGH-THE-PARTITION WELD

- Through-the-Partition Welds Improve Manufacturing Consistency
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POLYPROPYLENE CASE *

- Integrated Flame Arrestors to Prevent Fire and Explosion
- Pressure Relief Valves with Low Open/Close Tolerance to Reduce Water Loss and Extend Cycle Life
- Higher Heat Resistance and Durability, Lighter Weight than ABS Case

*** KEY MODELS**

PRODUCT BENEFITS

DRY CELL

TRACTION/INDUSTRIAL

RAIL/TRANSIT

SOLAR/ENERGY STORAGE

MARINE/RV

GEL CELL

TRACTION/INDUSTRIAL

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DRY CELL

TRACTION/INDUSTRIAL

Discover® DRY CELL batteries outperform traditional AGM and GEL batteries and are a resilient battery solution for industrial applications.

Incorporating graphite enhanced plate alloys, carbon additives and hydro polymer electrolytes with organic capillary separator technology, DRY CELL batteries are tolerant of Partial State of Charge (PSOC) operation and extreme temperatures.

Discover DRY CELL batteries are maintenance-free, provide a consistently high operating voltage and long runtime over their operational life. DRY CELL batteries are globally trusted and have been used by Original Equipment Manufacturers for over ten years.

- VRLA (Valve Regulated Lead Acid)
- Low Self-Discharge Rate
- Long Life - 550+ Cycles 70% DoD (IEC 254-1) / 450+ Cycles 100% DoD (BCIS-06)

TRUSTED OEM PART

- OEM Trusted for +10 years
- Exceeds OEM Standards
- Innovative Technology
- Global Service and Support

XVR
VIBRATION RESISTANT

- Vibration Resistance Superior to GEL / AGM
- Vibration Shock Tested IEC 61373-210, DIN EN 61373-2011

ENHANCED RUN TIME

- High Amp Hour Capacity
- High Operational Voltage Over Lifetime
- 80% DoD to 1.9 VPC

RESILIENCE

- Partial Stage of Charge Operation Superior to AGM
- Intense Duty Cycling Superior to AGM
- Over-Charge

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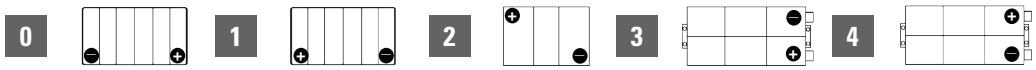
Part No.	Ind Ref	Volts	C20	C5	C3	Length	Width	Height*	Weight	Layout / Polarity	Terminal Type
			1.80 VPC 25°C	1.75 VPC 25°C	1.70 VPC 25°C	(mm)			(kg)		
DRY CELL TRACTION/INDUSTRIAL											
EV627A-A	627	6	210	180	165	306	168	221	29	2	M8
EVGC6A-A	GC6	6	220	190	170	260	180	254	30	2	AM (M8)
EVGC6A-B	GC6	6	207	165	150	260	180	254	27	2	AM (M8)
EVGT6A-A	GC6T	6	260	222	200	260	180	276	35	2	M8 (AM)
EV506A-230	GC6	6	230	200	170	244	189	254	32	2	M8 (SAE)
EV305A-A	902-305	6	330	290	260	295	180	345	46	2	AM (M8)
EVL16A-A	903-L16	6	390	340	295	295	180	383	53	2	M8
EVGC8A-A	GC8	8	160	130	115	260	180	266	30	1	AM (M8)
EVGT8A-A	GT8	8	200	160	140	260	180	295	37	1	M8 (AM)
EV805A-A	-	8	235	195	180	260	180	348	42	1	M8 (AM)
EV512A-12	-	12	12	10	9	151	98	95	4	3	F2
EV512A-18	-	12	18	14	12	181	77	167	6	0	M5
EV512A-20	-	12	20	18	16	181	77	167	6	0	M5
EV512A-24	-	12	26	22	20	166	175	125	8	0	M5 (F4)
EVU1A-A	U1	12	33	30	27	195	130	164	11	1	F7 (M6)
EV512A-45	-	12	50	40	35	197	165	170	15	0	M6 (F4)
EV22A-A	22	12	58	50	44	229	138	210	18	1	M6 (F5)
EV34A-A	34	12	65	55	48	258	167	178	20	1	SAE (M6)
EV512A-55	47-L2	12	55	50	42	242	175	170	18	0	SAE (M6)
EV512A-70	48-L3	12	68	60	51	278	175	190	22	0	SAE (M8)
EV512A-90	49-L5	12	87	80	68	353	175	190	27	0	SAE (M8)
EV24A-A	24	12	85	72	66	258	172	214	24	1	AM (M8)
EV24LA-A	24-low	12	85	72	66	258	172	206	24	1	AM (M8)
EV27A-A	27	12	100	90	80	308	172	212	29	1	AM (M8)
EV31A-A	31	12	120	98	92	330	172	216	33	1	AM (M8)
EV31A-B	31	12	115	92	80	330	172	216	32	1	AM (M8)
EV12A-A	31T	12	145	125	110	327	180	254	40	1	AM (M8)
EV12A-B	31T	12	135	115	98	327	180	254	37	1	AM (M8)
EV512A-150	31T/5SHP	12	150	130	117	341	173	284	42	1	M8
EV512A-160	-	12	165	140	125	485	172	235	45	1	M8 (F5)
EV185A-A	921-185	12	230	200	175	386	178	352	62	1	AM (M8)
EV4DA-A	4D	12	235	200	175	524	225	222	63	4	AT (D1,D3)
EV4DA-B	4D	12	210	175	152	524	225	222	59	4	AT
EV8DA-A	8D	12	280	240	215	522	275	222	78	4	AT (D1,D3)
EV8DA-B	8D	12	245	210	190	522	275	222	73	4	AT
EV512A-210FT	FT	12	205	165	150	560	125	317	60	4	M8

* Height refers to the distance from the bottom to the top of the case, and does not include the terminals.



TRUSTED OEM PART

- OEM Trusted for +10 years
- Exceeds OEM Standards
- Innovative Technology
- Global Service and Support

XVR VIBRATION RESISTANT

- Vibration Resistance Superior to GEL / AGM
- Vibration Shock Tested IEC 61373-210, DIN EN 61373-2011

ENHANCED RUN TIME

- High Amp Hour Capacity
- High Operational Voltage Over Lifetime
- 80% DoD to 1.9 VPC

RESILIENCE

- Partial Stage of Charge Operation Superior to AGM
- Intense Duty Cycling Superior to AGM
- Over-Charge

Discover®
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DRY CELL

RAIL/TRANSIT

Discover® DRY CELL batteries outperform traditional AGM and GEL batteries and are a resilient battery solution for passenger Rail /Transit applications.

Incorporating graphite enhanced plate alloys, carbon additives and hydro polymer electrolytes with organic capillary separator technology, DRY CELL batteries are tolerant of Partial State of Charge (PSOC) operation and extreme temperatures.

Discover DRY CELL batteries are maintenance-free, provide a consistently high operating voltage and long runtime over their operational life.

- VRLA (Valve Regulated Lead Acid)
- Long Life - Standby / Cyclic Use
- Vibration Shock Tested (61373-210, DIN EN 61373-2011)
- Flame Retardant Case V0 HL3 (DIN EN 45545-2)

Part No.	Ind Ref	Volts	C10 1.80 VPC 30°C	C5 1.75 VPC 30°C	C3 1.70 VPC 30°C	Length (mm)	Width (mm)	Height* (mm)	Weight (kg)	Layout / Polarity	Terminal Type
DRY CELL RAIL/TRANSIT - (V0, HL3)											
DCR06-215	GC6 DIN	6	215	205	175	244	189	254	32	2	SAE
DCR12-090	49-L5	12	87	82	72	353	175	190	27	0	SAE
DCR12-115	31	12	115	100	95	330	172	216	33	1	AM
DCR12-110	31	12	108	95	82	330	172	216	32	1	AM
DCR12-235	4DR	12	235	220	185	524	225	222	64	3	AT
DCR12-270	8DR	12	267	245	220	522	275	222	78	3	AT
DCR12-120	Front Terminal	12	115	105	100	541	125	217	39	4	M8

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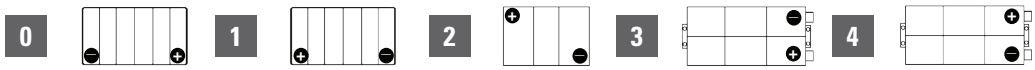

RELIABLE, SAFE, CERTIFIED

- Maintenance-free
- Non-Spill, Non-Gas
- Integrated Flame Arrestors Prevent Fire and Explosion
- Certified UL, CE Health Safety
- SAE J240, J1495, J2185

XVR VIBRATION RESISTANT

- Vibration Resistance Superior to GEL / AGM
- Vibration Shock Tested IEC 61373-210, DIN EN 61373-2011

RESILIENCE

- Partial Stage of Charge Operation Superior to AGM
- Intense Duty Cycling Superior to AGM
- Over-Charge Resilience Superior to GEL / AGM
- Over-Discharge Resilience Superior to AGM

EXTREME TEMPERATURES

- High Temperature Life Superior to AGM
- Low Temperature Operation Superior to FLA / GEL / AGM

HL3 V0 FLAME RETARDANT CASE

- Flame Retardant Case V0 HL3 (DIN EN 45545-2)

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DRY CELL

SOLAR/ENERGY STORAGE

Discover® DRY CELL batteries outperform traditional AGM and GEL batteries and are a resilient battery solution for Solar / Energy Storage applications.

Incorporating graphite enhanced plate alloys, carbon additives and hydro polymer electrolytes with organic capillary separator technology, DRY CELL batteries are tolerant of Partial State of Charge (PSOC) operation and extreme temperatures.

Discover DRY CELL batteries are maintenance-free, provide a consistently high operating voltage and long runtime over their operational life.

- VRLA (Valve Regulated Lead Acid)
- Resilient to Partial State of Charge
- Long Life - 1400+ Cycles 50% DoD (BCIS-06) / 700+ Cycles 60% DoD (IEC 896-2)

Part No.	Ind Ref	Volts	C120	C20	C10	Length	Width	Height*	Weight	Layout / Polarity	Terminal Type
			1.75 VPC 30°C			(mm)			(kg)		
DRY CELL SOLAR/ENERGY STORAGE											
6VRE-1500FD	GC6	6	247	225	205	260	180	254	30	2	M8
6VRE-2700FD	903-L16	6	449	408	378	295	180	383	53	2	M8
12VRE-1400FD	27	12	119	110	98	308	172	212	29	1	M8
12VRE-1900FD	31T	12	162	148	135	327	180	254	40	1	M8
12VRE-2800FD	4D	12	232	210	192	517	225	222.	59	4	AT
12VRE-3100FD	921-185	12	257	240	215	386	178	352	62	1	M8
12VRE-3900FD	8D	12	321	300	275	522	275	222	78	4	AT

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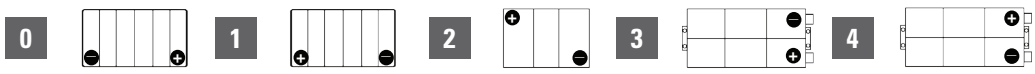

ENHANCED RUN TIME

- High Amp Hour Capacity
- High Operational Voltage Over Lifetime
- 50% DoD to 2.05 VPC

EXTENDED SERVICE LIFE

- Long Life Superior to FLA/AGM
- 1400+ Cycles 50% DoD (BCIS-06)
- 700+ Cycles 60% DoD (IEC 896-2)

RELIABLE, SAFE, CERTIFIED

- Maintenance-free
- Non-Spill, Non-Gas
- Integrated Flame Arrestors Prevent Fire and Explosion
- Certified UL, CE Health Safety
- IEC 60896-21/22
- Heat Resistant Polypropylene Case

EXTREME TEMPERATURES

- High Temperature Life Superior to AGM
- Low Temperature Operation Superior to FLA / GEL / AGM

RESILIENCE

- Partial Stage of Charge Operation Superior to AGM
- Intense Duty Cycling Superior to AGM
- Over-Charge Resilience Superior to GEL / AGM
- Over-Discharge Resilience Superior to AGM

Discover®
Innovative Battery Solutions

DRY CELL

MARINE/RV

Discover® DRY CELL batteries outperform traditional AGM and GEL batteries and are a resilient battery solution for Marine / RV applications.

Incorporating graphite enhanced plate alloys, carbon additives and hydro polymer electrolytes with organic capillary separator technology, DRY CELL batteries are tolerant of Partial State of Charge (PSOC) operation and extreme temperatures.

Discover DRY CELL batteries are maintenance-free, provide a consistently high operating voltage and long runtime over their operational life.

- VRLA (Valve Regulated Lead Acid)
- Low Self-Discharge Rate
- Long Life – Starting / Cycling 550+ Cycles 70% DoD (IEC 254-1)

Part No.	Ind Ref	Volts	C20 1.75 VPC 30°C	RC	CCA	Length (mm)	Width (mm)	Height* (mm)	Weight (kg)	Layout / Polarity	Terminal Type
DRY CELL MARINE/RV											
DCMGC6	GC6	6	230	490	750	260	180	254	30	2	AM (M8)
DCML16	903-L16	6	400	880	1000	295	180	383	53	2	M8
DCMU1	U1	12	35	52	250	195	130	164	11	1	M6
DCM24	24	12	85	160	450	258	172	214	24	1	AM (M8)
DCM27	27	12	105	200	550	308	172	212	29	1	AM (M8)
DCM31	31	12	120	240	700	330	172	216	33	1	AM (M8)
DCM31T	31T	12	150	300	750	327	180	254	40	1	AM (M8)
DCM4D	4D	12	240	515	1100	524	225	222	63	4	AT
DCM8D	8D	12	290	625	1300	522	275	222	78	4	AT

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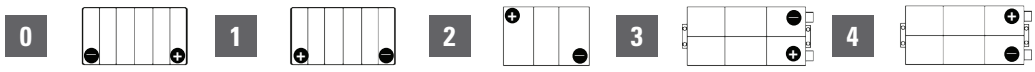

ENHANCED RUN TIME

- High Amp Hour Capacity
- High Operational Voltage Over Lifetime
- 50% DoD to 2.05 VPC

EXTENDED SERVICE LIFE

- Long Life Superior to FLA/AGM
- 1400+ Cycles 50% DoD (BCIS-06)
- 550+ Cycles 70% DoD (IEC 254-1)

RELIABLE, SAFE, CERTIFIED

- Maintenance-free
- Non-Spill, Non-Gas
- Integrated Flame Arrestors Prevent Fire and Explosion
- Certified UL, CE Health Safety
- IEC 60896-21/22
- SAE J240, J1495, J2185
- Impact Resistant Polypropylene Case

EXTREME TEMPERATURES

- High Temp Life Superior to AGM
- Low Temperature Operation Superior to FLA / GEL / AGM

RESILIENCE

- PSOC Superior to AGM
- Intense Duty Cycling Superior to AGM
- Over-Charge Resilience Superior to GEL / AGM
- Over-Discharge Resilience Superior to AGM
- Compatible with GEL / AGM Traction Charge Profile

Discover®
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GEL CELL

TRACTION/INDUSTRIAL

Discover® GEL CELL batteries outperform traditional Flooded, AGM and Gel deep cycle batteries and are a resilient battery for industrial applications.

Incorporating Gel technology with graphite enhanced plate alloys and carbon additives, GEL CELL batteries support deep discharge recovery and are tolerant of Partial State of Charge Operation (PSOC).

GEL CELL Traction batteries perform well in higher ambient temperatures and are maintenance-free. Discover batteries are globally trusted and have been used by Original Equipment Manufacturers for over ten years.

- VRLA (Valve Regulated Lead Acid)
- Long Life - 600+ Cycles 70% DoD (IEC 254-1)
- Proof Against Deep Discharge - 400+ Cycles 100% DoD (DIN 43 539)

Part No.	Ind Ref	Volts	C20	C5	C3	Length	Width	Height*	Weight	Layout / Polarity	Terminal Type
			1.80 VPC 25°C	1.75 VPC 25°C	1.70 VPC 25°C	(mm)			(kg)		
GEL CELL TRACTION/INDUSTRIAL											
EV506G-170	GC6	6	196	167	150	260	180	254	29	2	M8 (AM)
EV506G-180	GC6 DIN	6	210	180	162	244	189	271	32	2	M8 (SAE)
EV506G-250	902-305	6	290	250	235	293	180	343	46	2	M8 (AM)
EV506G-290	903-L16	6	330	290	265	295	180	406	55	2	M8
EV512G-020	-	12	24	20	16	166	175	125	9	0	M5
EV512G-028	U1	12	33	28	24	195	130	155	11	1	M6 (F7)
EV512G-034	-	12	40	34	28	197	165	170	13	0	M6 (F4)
EV512G-044	22	12	55	45	42	229	138	208	18	1	M6 (F5)
EV512G-050	34	12	61	50	46	258	167	178	19	1	M6 (SAE)
EV512RG-050	34R	12	61	50	46	258	167	178	19	0	M6 (SAE)
EV512G-063	24	12	73	63	53	258	172	214	23	1	M6 (M8, AM)
EV512LG-063	24-low	12	73	63	53	258	172	206	23	1	M6 (M8, AM)
EV512G-076	31	12	88	76	63	330	172	216	28	1	M8 (AM)
EV512G-080	31	12	90	80	66	330	172	216.0	29	1	M8 (AM)
EV512G-103	31T	12	120	103	90	327	180	254	36	1	M8 (AM)
EV512G-155	4D	12	185	155	150	517	225	222	58	4	AT (D1,D3)
EV512G-190	8D	12	225	190	185	522	275	222	72	4	AT (D1,D3)

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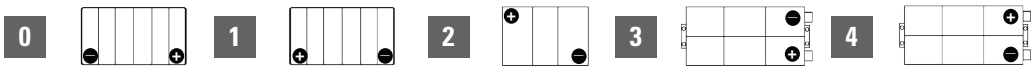

TRUSTED OEM PART

- OEM Trusted for +10 years
- Exceeds OEM Standards
- Innovative Technology
- Global Service and Support

EXTENDED SERVICE LIFE

- Long Life Superior to Deep Cycle FLA / GEL / AGM
- 600+ Cycles 70% DoD (IEC 254-1)
- 400+ Cycles 100% DoD (DIN 43 539)

EXTREME TEMPERATURES

- High Temp Life Superior to AGM