

Absorbed Glass Mat VRLA Industrial Battery Block

Discover® Clean & Green™ Series EV Traction Dry Cell Industrial Batteries provide superior high integrity and reliability for environmentally sensitive areas, commercial, industrial and private applications. The maintenance-free, valve regulated lead acid (VRLA) construction makes Discover® EV Traction Batteries the definitive choice for Mobility and Home Medical Equipment (HME); Broadband and Cable TV (CATV); Uninterruptible Power Supplies (UPS); Telecommunication; Photovoltaic, Solar and Renewable Energy Storage; Electronic and Security; Marine and RV; Golf and Electric Vehicle; Aerial Lifts and Fork Lifts; Floor Machines and Robotics.

Features & Benefits

EV Traction Dry Cell

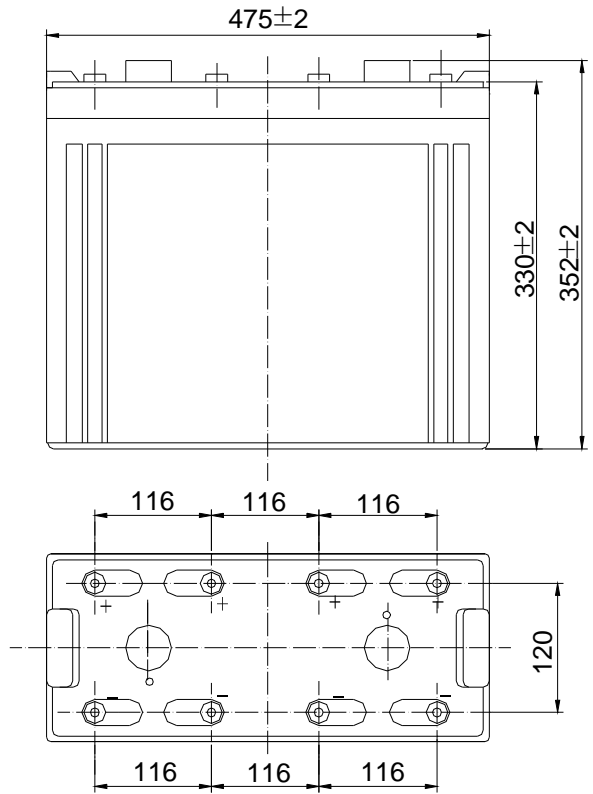
- Completely sealed valve regulated construction.
- Flame arresting pressure regulated safety sealing valves for safety, operating pressure management and protection against atmospheric contamination (excess oxygen being absorbed by negative plates).
- Computer-aided 99.994% pure heavy-duty lead calcium grid designs.
- Tank formed plates guarantees evenly formed and capacity matched plates.
- Discover® proprietary Vision Max® Paste Formula.
- Anchored plate groups to guard against vibration.
- Double insulating Micro porous glass fiber separators.
- Measured and Immobilized electrolyte.
- Vacuum filling and weighing processes.
- Advanced technology for efficient gas recombination of up to 99.9% and freedom from electrolyte maintenance.
- Wide range of operating temperatures (-40°C to 60°C).
- Low self discharge rates (Approx. 1%-3% monthly at 20 °C-25°C / 68°F-77°F).
- High impact reinforced strength copolymer ABS cases and flat top designed covers that are rugged and vibration resistant.
- Epoxy adhesion case to cover bonds that eliminate leakage.
- Copper and stainless steel alloy terminals and hardware.
- Multi-terminal options.
- Terminal protectors.
- Removable carry handles.
- Industry leading size and performance options.
- Classified as "NON-SPILLABLE BATTERY" Not restricted for Air (IATA/ICAO) Provision 67, Surface (DOT-CFR-HMR49) or Water (Classified as non-hazardous per IMDG amendment 27) transportation.
- Can be used in multiple orientations (upside down is not recommended).
- Compatible with sensitive electronic equipment.
- Quality Assurance processes with ISO (4400/992579), QS and TUV Certification EMC tested, CE, ETTS Germany (G4M19906-9202-E-16). UL recognized and approved components (MH29050).
- Tellcordia and Bellcore compliant.



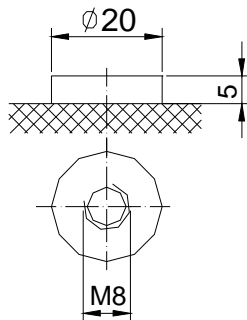
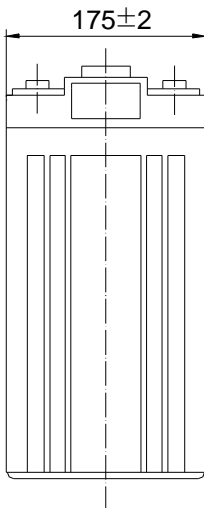
Complies with DOT provisions listed in 49CFR173.159 (d). Special provision A67

Mechanical Characteristics

Industry Type No.	Volts	Standard (optional) Terminals	Dimensions in Inches (mm)				Approx. Weight in Lbs (Kgs)
			L in(mm)	W in(mm)	H in(mm)	TH in(mm)	
DIN	2	F10	18.7 (475)	6.9 (175)	13.0 (330)	14.4 (367)	146.6(66.5)



Total height with removable cover: 367mm



Electrical Specifications

Ampere Hour Capacity							
120HR	100HR	36HR	20HR	10HR	5HR	3HR	1HR
1250	1210	1120	1100	1000	900	750	620
Minutes of Discharge					RC@25A	Cranking Amps	
@25A	@56A	@75A	@85A	@100A		32°F/ 0°C	0°F/ -18°C
3361	1230	894	699	600	3060		

Constant current discharge ratings-amperes at 20°C (68°F)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	1855	1408	1063	758	620	261	195	108
1.65V	1758	1340	1016	728	602	256	190	106
1.70V	1658	1270	967	696	582	253	185	104
1.75V	1555	1199	917	663	546	250	180	102
1.80V	1451	1127	866	628	534	243	173	100

Constant power discharge ratings-watts per cell at 20°C (68°F)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	2965	2421	1804	1360	1114	720	522	360
1.65V	2793	2290	1713	1298	1067	702	507	354
1.70V	2620	2158	1621	1233	1018	688	497	348
1.75V	2447	2024	1527	1166	967	676	488	341
1.80V	2276	1890	1432	1099	915	661	476	335

Internal resistance	Fully charged at 20°C: 0.19 mOhms		
Self discharge	<3% of capacity per month at 20°C		
Operating temperature range	Discharge	Charge	Storage
	-20~60°C	-10~50°C	-20~60°C
Short circuit current (20°C)	11000A		

CHARGE METHODS: Constant voltage charge at 20°C (68°F)	Charge voltage	Temperature compensation	Maximum Current	Peak 5 seconds	Peak 10 seconds	Maximum continuous	Recommended maximum continuous
Standby use	2.27-2.30V	-3.3mV/°C	Maximum charge current	1C10A	0.75C10A	0.5C10A	0.3C10A
Cyclic use	2.40-2.45V	-5mV/°C	Maximum discharge current	2C10A	1.5C10A	1C10A	0.5C10A

Contact Discover Engineering for OEM specific charging algorithms!

Charge / Discharge Tables & Graphs

