

Deka ^{GEL} DOMINATOR[®]

STARTING/DEEP CYCLE MARINE

NON-SPILLABLE by DOT (Department of Transportation), ICAO (International Commercial Airline Organization) and IATA (International Airline Transport Association) definitions.

The Dominator vs. Conventional Liquid Acid Batteries

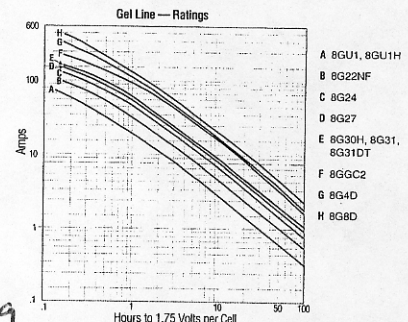
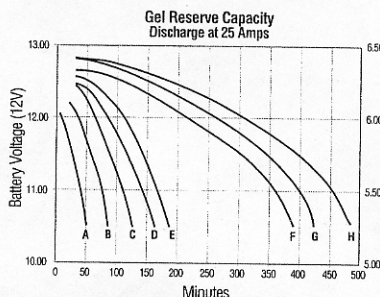
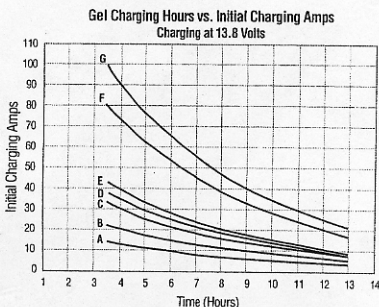
Deka introduces a marine battery second to none. The Dominator contains electrolyte that is permanently locked in a thixotropic gel, instead of conventional and messy liquid acid. Our gelled electrolyte batteries offer many significant advantages over conventional liquid acid batteries. Because there is no liquid electrolyte to leak or spill out of the battery, the Dominator can be easily installed in hard-to-reach locations. Because it has gelled electrolyte, there is no need to check fluid levels. The Dominator's gelled construction also eliminates vibration damage to plates. The Dominator even works under water.

Potential Applications for the Deka Dominator Marine Battery

Buoy Lighting	Engine Starting	Safety Lighting
Communication Equipment	House Power	Security Systems
Control Equipment	Marine Equipment	Ships' Batteries
Emergency Lighting	Navigation Beacons	Trolling Motors
Emergency Power	Radar Stations	Other Deep-Discharge Applications
Supply Systems	Radio Relay Stations	

Features and Benefits

- 100% maintenance-free...
- Ideal for engine starting and/or trolling...
- Faster recharging...
- Longer life...
- Longer operating/trolling time...
- Compu-cast grids and computer-controlled oxide...
- Sealed, recombinant construction with gelled electrolyte...
- Self-discharge rate of less than 2% per month (at 68°F)...
- Thick consistency of gelled electrolyte and tight-pack construction...
- Easy to install...
- Over 250 quality control checks...
- Broad line of sizes and types...
- Made in U.S.A...
- No need to check electrolyte levels. Install it and forget it.
- Great multi-purpose battery.
- For quicker turnaround time.
- Resists damaging over-discharges.
- Runs considerably longer than comparable wet batteries.
- For maximum durability, power and life.
- Eliminates dangerous spills, gasses and terminal corrosion (unless severely overcharged).
- Recharges to full power, even if left discharged for months.
- Eliminates the damaging effects of vibration.
- Convenient for hard-to-reach connection and hook-up.
- Guarantee highest quality, performance and reliability.
- For all your marine power needs.
- Your assurance of quality.



				Time (Hours)		Minutes														Hours to 1.75 Volts per Cell	
8 HRS FOR 2 W/ 10A CHARGER → 94.69																					
Type No.	Foot Notes	Volts	Terminal	CCA @ 0°F	CA @ 32°F	Res. Capacity @ 80°F	Minutes Discharged at*					Ampere Hour Capacity*				Approx. Wt. Lbs. (Kgs.)	Dimensions In (mm)				
							75 Amps	50 Amps	25 Amps	15 Amps	8 Amps	5 Amps	20 Hr. Rate	6 Hr. Rate	3 Hr. Rate		1 Hr. Rate	L	W	H	
8GU1MM	P	12	T873	215	310	44	8	16	47	90	190	325	31.6	28.0	25.5	21.0	24.2 (11.0)	7 1/4 (197)	5 1/4 (130)	7 1/4 (184)	
8GU1HMM	HP	12	T873	215	310	44	8	16	47	90	190	325	31.6	28.0	25.5	21.0	24.2 (11.0)	8 1/4 (211)	5 1/4 (130)	7 1/4 (184)	
8G22NFM	PV	12	T881	245	350	82	18	35	87	160	330	540	50.6	44.4	40.8	33.5	37.6 (17.1)	9 1/4 (238)	5 1/4 (140)	9 1/4 (235)	
8G24MM	HPQ	12	T872M	410	575	132	33	57	140	245	500	845	73.6	64.5	59.3	48.5	53.6 (24.3)	10 1/4 (276)	6 1/4 (171)	9 1/4 (251)	
8G27MM	HPQ	12	T872M	505	700	160	40	70	170	300	605	1000	86.4	76.0	69.9	57.0	63.2 (28.7)	12 1/4 (324)	6 1/4 (171)	9 1/4 (251)	
8G30HMM	HPQ	12	T876	550	780	180	51	84	190	335	690	1160	97.6	85.2	78.6	64.5	71.7 (32.5)	12 1/4 (329)	6 1/4 (171)	9 1/4 (248)	
8G31MM	HP	12	Stud	550	780	180	51	84	190	335	690	1160	97.6	85.2	78.6	64.5	71.7 (32.5)	12 1/4 (329)	6 1/4 (171)	9 1/4 (238)	
8G31DTMM	HPT	12	SAE/Stud	550	780	180	51	84	190	335	690	1160	97.6	85.2	78.6	64.5	71.7 (32.5)	12 1/4 (329)	6 1/4 (171)	9 1/4 (238)	
8GGC2MM	PV	6	T881	585	850	345	92	155	375	680	1360	2200	180.0	155.0	136.0	99.0	68.4 (31.0)	10 1/4 (260)	7 1/4 (181)	10 1/4 (276)	
8G4DMM	HP	12	SAE	1050	1350	375	105	175	395	685	1385	2300	183.0	160.2	147.6	122.0	129.8 (58.9)	20 1/4 (527)	8 1/4 (216)	10 (254)	
8G8DMM	HP	12	SAE	1265	1615	475	135	220	500	890	1750	3000	225.0	198.0	181.8	150.0	160.8 (72.9)	20 1/4 (527)	11 (279)	10 (254)	

* NOMINAL

ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS.
IMPORTANT CHARGING INSTRUCTIONS: WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger. For 12-volt batteries, charge to at least 13.8 volts but no more than 14.1 volts at 68°F (20°C). For 6-volt batteries, charge to at least 6.9 volts but no more than 7.05 volts at 68°F (20°C). Do not charge in a sealed container.

FOOTNOTES:

- H - Includes handles
- P - Polypropylene container and cover
- Q - Combination terminals, offset with 5/16" stainless stud and wing nuts
- T - Dual top terminals w/ SAE posts and stainless steel 3/8" stud and wing nuts
- V - Combination terminals, offset post with horizontal hole, 5/16" bolt and hex nut



EAST PENN manufacturing co., inc.

Lyon Station, PA 19536-0147 • Phone: (610) 682-6361 • Fax: (610) 682-4781
Order Department Hotline: (610) 682-4231
WWW: <http://www.eastpenn-deka.com> • E-mail: eastpenn@eastpenn-deka.com

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– Material Safety Data Sheet –**Valve Regulated Lead Acid Battery**

“Battery Non-Spillable 49 CFR 173.159 (d)”

SECTION I**Manufacturer's Name:**East Penn Manufacturing Co., Inc.
Deka Road, Lyon Station, PA 19536**Telephone Number for Information:** (610) 682-6361**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300,
In Washington D.C. or outside continental U.S., call 1-202-483-7616**Date:** March 15, 2002**Trade Name:** Gell; Absorbed Electrolyte,
Sealed Valve Regulated Non Spillable Battery**SECTION II****HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components Specific Chemical Identity (Common Name (s))	OSHA PEL	ACGIH TLV	Range Percent By Weight	Average
Lead, CAS #7439921	0.05 mg/m ³	0.05 mg/m ³	60-75%	67%
Sulfuric Acid, CAS #7664939	1.00 mg/m ³	1.00 mg/m ³	5-15%	10%
Antimony, CAS #7440360	0.50 mg/m ³	0.50 mg/m ³	0-0.1%	<0.1%
Arsenic, CAS #7440382	0.01 mg/m ³	0.01 mg/m ³	0.01 %	<0.1%
Polypropylene, CAS#9003070	N/A	N/A	2-10%	4%
Calcium, CAS#7440702	1.0 mg/m ³	1.0 mg/m ³	0-0.1%	<0.1%
Tin CAS #7440315	2.0 mg/m ³	2.0 mg/m ³	0-0.1%	<0.1%

SECTION III**PHYSICAL/CHEMICAL CHARACTERISTICS****Electrolyte (Sulfuric Acid):****Appearance and Odor:** Clear, Odorless, colorless liquid**Boiling Point:** 235 – 240° F**Evaporation Rate (Butyl Acetate=1):** less than 1.0**Melting Point:** N/A**Solubility in Water:** 100%**Specific Gravity (H₂O=1):** 1.270 – 1.330**Vapor Density (AIR=1):** Greater than 1**Vapor Pressure (mm Hg):** 10**SECTION IV****FIRE AND EXPLOSION HAZARD DATA****Flash Point (Method Used):** Non-Flammable**Extinguishing Media:** Class ABC extinguisher,**Flammable Limits:** *Hydrogen Gas**LEL:** 4%**UEL:** 74%**NOTE:** CO₂ may be used, but not directly on the cell. The thermal shock may cause cracking of the battery case and/or cases.*** Hydrogen gas may be generated during battery charging.****SECTION V****REACTIVITY DATA****Stability:** Stable**Condition to Avoid:** Prolonged overcharging, sources of ignition**Incompatibility (Materials to Avoid):** Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.**Hazardous Decomposition of By-Products:** Sulfuric Acid: Excessive overcharging or fire may create Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen.**Lead Compounds:** Contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.

SECTION VI HEALTH HAZARD DATA

Route(s) of Entry: Not Applicable under normal use.

Carcinogenicity:

Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of the product such as overcharging, may result in the generation of sulfuric acid mist.

Lead Compounds: Lead is listed as a 2B carcinogen, likely in animals at extreme doses. Proof of carcinogenicity in humans is lacking at present.

Arsenic: Listed by National Toxicology Program (NTP), IARC, OSHA and NIOSH as a carcinogen only after prolonged exposure at high levels.

Signs and Symptoms of Exposure: Avoid contact, with absorbed electrolyte (sulfuric acid) may cause irritation of eyes, nose and throat. Contact with eyes and skin causes irritation and skin burns. Absorbed electrolyte is corrosive.

Medical Conditions Generally Aggravated by Exposure: Pregnant women and children must be protected from lead exposure.

Health Hazards (Acute and Chronic): Do not open battery, avoid contact with internal components. Internal components include lead and absorbed electrolyte. Electrolyte is corrosive and contact may cause skin irritation and chemical burns.

Emergency and First Aid Procedures: (contact with electrolyte)

- 1) Flush contacted area with large amounts of water for at least 15 minutes. Remove contaminated clothing and obtain medical attention if necessary. Eye wash and/or emergency shower should be readily available.
- 2) If swallowed, give large volumes of water. **DO NOT** induce vomiting, obtain medical treatment.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Electrolyte material is corrosive. Contains sulfuric acid. Neutralize any spilled material. Reference 1996 North American Emergency Response Guidebook, #154.

Waste Disposal Method: Lead-acid batteries are completely recyclable. For information on returning batteries to East Penn for recycling, contact your East Penn Representative. Dispose of any collected material in accordance with local, state or applicable federal regulations.

Precautions to be Taken in Handling and Storing: Store away from reactive material as defined in Section V, Reactivity Data. Place cardboard between layers of stacked batteries to avoid damage and short circuit. Do not allow metallic materials to simultaneously contact both terminals.

Other Precautions: If battery case is broken, avoid direct contact with internal components. Keep away from ignition sources during charging.

SECTION VIII CONTROL MEASURES

Respiratory Protection (Specific Type): N/A

Ventilation: Must be provided when charging in an enclosed area.

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Clothing or Equipment: N/A

Work Hygienic Practices: Good Personal hygiene and work practices are recommended.

SECTION IX

OTHER REGULATORY INFORMATION

<u>NFPA Hazard Rating</u>	<u>Sulfuric Acid</u>	<u>Lead</u>
Health (Blue)	3	3
Flammability (Red)	0	0
Reactivity (Yellow)	2	0

Note: Sulfuric acid is water-reactive if concentrated.

U.S. DOT: The Non-Spillable lead acid battery complies with the provisions listed in 49CFR173.159(d) therefore must not be marked with an identification number, such as UN2800, or a hazard label, such as corrosive. Also, having passed IATA/ICAAO special provision A67, these batteries are not subject to the air dangerous goods regulations.

RCRA: Spent lead-acid batteries are not regulated as hazardous waste when recycled. Spilled sulfuric acid is a characteristic hazardous waste, EPA hazardous waste number D002 (corrosivity).

CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know ACT)

- a) Reportable Quantity (RQ) for spilled 100% sulfuric acid is 1000 lbs.
- b) Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA with a Threshold Planning Quantity (TPQ) of 1000 lbs.
- c) Batteries are subject to EPCRA reporting requirements under sections 302/304, 311/312, and 313.
Reporting quantities are as follows:
 Lead: section 311/312= 10,000 lbs.
 Title III section 313 = 100 lbs.
 Sulfuric Acid: section 311/312 = 500 lbs.
 Title III section 313 = 500 lbs.

California Prop 65: Battery posts, terminals and related accessories contain lead and lead compounds, and other chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**

For additional information concerning East Penn Manufacturing Co., Inc. products or questions concerning the content of this MSDS please contact your East Penn representative.

This information is accurate to the best of East Penn Mfg. Co.'s knowledge or obtained from sources believed by East Penn to be accurate. Before using any product, read all warnings and directions on the label.