



DOMINATOR Gel-Mate

SEALED VALVE REGULATED LEAD-ACID (SVRLA) GELLED ELECTROLYTE BATTERIES

*Congratulations on your choice of a new **Deka industrial battery**. The SVRLA line of **Deka industrial batteries** incorporates every feature required by today's user of electric industrial trucks. Designed with East Penn engineering technology and built by master battery craftsmen according to strict quality assurance guidelines, **Deka industrial batteries** are the finest available to meet today's material handling requirements. Deka precision construction provides new equipment performance throughout a long life. This battery has been inspected prior to shipment to ensure that it meets your specifications as ordered. By following the operating and maintenance instructions, you will be ensuring optimum life and performance of your new **Deka industrial battery**.*

BATTERIES AND RELATED PARTS CONTAIN LEAD



WASH HANDS AFTER HANDLING!

CALIFORNIA PROPOSITION 65 WARNING: Batteries, 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.

California Proposition 65 Workplace Warning Sign 7/04
Must be posted in workplace near batteries.



4-1014

DANGER Contains: Lead, Sulfuric Acid (Electrolyte), Lead Compounds.

Harmful if swallowed, inhaled, or in contact with skin. Acid causes severe skin burns and eye damage. May damage fertility or the unborn child if ingested or inhaled.

May cause harm to breast-fed children. May cause cancer if ingested or inhaled. Causes skin irritation, serious eye damage. Contact with internal components may cause irritation or severe burns.

Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure if ingested or inhaled. Irritating to eyes, respiratory system, and skin. May form explosive air/gas mixture during charging. Extremely flammable gas (hydrogen). Explosive, fire, blast or projection hazard.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat drink or smoke when using this product. Avoid contact during pregnancy/while nursing. Wear protective gloves/protective clothing, eye protection/face protection. Use only outdoors or in a well-ventilated area. Avoid contact with internal acid. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. No smoking. IF SWALLOWED OR CONSUMED: rinse mouth. Do NOT induce vomiting. Call a poison center/doctor if you feel unwell.

IF ON CLOTHING OR SKIN (or hair): Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed/concerned, or if you feel unwell seek medical attention/advice. Store locked up, in a well-ventilated area, in accordance with local and national regulation. Dispose of contents/container in accordance with local and national regulation. Keep out of reach of children.



PROPOSITION 65 WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. **WASH HANDS AFTER HANDLING.**

WARNING: Risk of fire, explosion or burns. Do not disassemble or incinerate. Not recommended for inverted use. Follow product charging instructions. **High Voltage:** Risk of shock. Do not touch uninsulated terminals or connectors. Do Not Remove Vent Valves.

Manufactured by: East Penn Manufacturing Co., 102 Deka Road, Lyon Station, PA 19536 USA 610-682-6361

**Lead Acid
Battery
Electrolyte
(Sulfuric Acid)**

OPERATING INSTRUCTIONS

WARNING: Charging shall be performed by using only the supplied on-board charger for gelmate. Only use an approved East Penn charger with a sealed lead-acid gel battery charge curve profile. The valve-regulated vent should not be removed. Removal of the vent will adversely affect the battery's life and performance. The battery's warranty will be void if these guidelines are not followed.

1. Upon receipt of the battery, if there are signs of rough handling, or exposed electrolyte, or loose or missing vent(s), file a claim with the carrier and advise your Deka representative.
2. Check the nameplate of your charger against the nameplate of the battery to make sure they both show the same voltage and that the six-hour ampere hour capacity of the battery falls within the recharge range of the charger.
3. The "Battery Type Identification" shown on the battery (E, EO), should match the "Battery Type Identification" specified on the truck nameplate.
4. Make sure that the battery "SERVICE WEIGHT," which is stamped below the lifting hole in the steel tray, falls within the battery weight range shown on the truck nameplate. East Penn Manufacturing Co. cannot be responsible for determining that the battery weight is sufficient to counterbalance your particular truck.
5. The battery should receive an equalizing charge prior to placing the battery into service. The battery shall be charged by using the supplied charger. The equalizing charge is complete when the charger automatically terminates. No other charger should be used unless approved by East Penn. Doing so will void the warranty.
6. The battery shall be placed on charge at the end of the work shift and the charge should continue until the charger terminates the charge automatically. All vents should be unobstructed and securely tightened. The steel tray cover or the truck compartment should be kept open during the entire duration of charge.
7. Overcharging and undercharging a sealed gel electrolyte battery will greatly affect the life of the battery.
8. Measuring the open circuit voltage provides a way to determine the state of charge of the battery. The open circuit voltage shall be taken with a voltmeter. Voltage measurements should be taken no earlier than 4 hours on open circuit following a charge.
9. EPM recommends when lifting a battery that an insulated lifting beam be used. Also, make certain that the lifting hooks are the correct size and are properly aligned with the holes in the lifting ears of the tray prior to hoisting a battery.

STATE OF CHARGE VS. OPEN CIRCUIT

% Charge	Open Circuit Voltage
100	2.15 – 2.18
75	2.12
50	2.07
25	2.01
0	1.97

MAINTENANCE

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WARNING: Always wear safety glasses when working around batteries! Keep sparks and flames away! The valve regulated pressure relief valve should never be removed or loosened!

1. The top of the battery should be kept clean and dry at all times. Simply clean the top of the battery with a damp cloth. The valve regulated vent and shroud shall remain on the battery at all times.
2. The cables and connectors should be inspected monthly for exposed copper wires, frayed or cracked insulation, loose connections, or pitted contacts, and repaired as required.
3. Be especially careful to keep metallic objects off the top of the battery. Any metal touching two or more connectors may cause a short circuit resulting in an arc or spark which ignite battery gasses explosively.
4. The output rate and voltage of the charger should be checked periodically. Make certain that the DC voltage and ampere hour range of the charger match the nameplate information on the battery.
5. Depending on the type of service, it will be necessary to give the battery an equalizing charge every one to four weeks. Set the charger to the equalize position.

TYPE	PLATES PER CELL	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33
G45	6 Hr A.H. Rating	90	135	180	225	270	315	360	405	—	—	—	—	—	—	—
G75	6 Hr A.H. Rating	150	225	300	375	450	525	600	675	750	825	900	975	1050	1125	1200
G105	6 Hr A.H. Rating	—	—	420	525	630	735	840	945	—	—	—	—	—	—	—



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