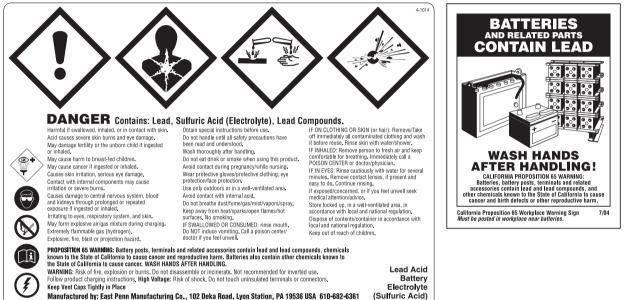




**Congratulations on your choice of a new Deka industrial battery.** The complete line of Deka industrial batteries incorporates every feature required by today's user of electric industrial trucks. Designed with East Penn engineering technology and **built by master battery craftsmen** according to 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.

## **E-Z LINK® OPERATING INSTRUCTIONS**



 Upon receipt of the battery, if there are signs of rough handling or of electrolyte leakage, file a claim with the carrier and advise your Deka representative.

The electrolyte level should normally be above the perforated separator protector, which can be seen in the cell when the vent caps are removed. However vibrations during shipping often shake enough gas out of the cell that the electrolyte level may drop below the separator protector, especially on taller cells. If the electrolyte level is still above the top of the plates and can be seen with a flashlight through the holes in the separator protector, the battery may be given its initial charge without adjusting the electrolyte level.

**If the electrolyte level is not visible** or is below the top of the plates, check again for leaking cells and call your Deka representative before charging the battery.

- 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 eight-hour recharge range of the charger.
- **3.** The "Battery Type Identification" shown on the battery (E, EO, EE, EX) 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.

- Prior to placing the battery in service, it should be given an equalizing charge. Near the end of the charge, check to make sure that the electrolyte levels of all cells are visible and above the separator protector. The full charge specific gravity is 1.280 to 1.295 when temperature corrected to 77°F (25°C).
- 6. Upon installation in the truck, battery restraints should be adjusted to restrict movement of the battery to no more than 1/2" in a horizontal direction. An insulated spreader bar should be used any time the battery is lifted or hoisted.
- Batteries normally should not be discharged more than 80% of their rated capacity for longest service life. Section III of the DEKA INDUSTRIAL SERVICE MANUAL (0656) gives detailed information for your specific battery type.
- 8. The battery should be placed on charge upon completion of the work shift and returned to full charge. If at the end of the work shift the specific gravity has not fallen below 1.230, it is advisable to use the battery for another shift. Normally, batteries should not be used for more than two successive shifts before recharging. All vent caps should be kept in place and the steel tray cover or the truck compartment cover kept open while charging.
- 9. After the daily charge and prior to the start of the workshift, a specific gravity reading should be taken with a hydrometer on at least one cell in order to ensure full recharge. The specific gravity should be between 1.280 and 1.295 when temperature corrected to 77°F (25°C).
- **10.** A copy of the DEKA INDUSTRIAL BATTERY SERVICE MANUAL (0656), which gives more detailed information on the Operation and Maintenance of motive power batteries, can be obtained from your Deka representative by asking for form number 0656.

## **E-Z LINK® MAINTENANCE**

## ALWAYS WEAR SAFETY GLASSES WHEN WORKING AROUND BATTERIES! KEEP SPARKS AND FLAMES AWAY!

- 1. Once each week the electrolyte level should be checked in every cell. It may be necessary to add water to the battery on a weekly to a monthly basis, depending on the type of battery and the type of service for which it is used.
- 2. Only distilled, deionized or approved water should be added to the battery. Water should be added only near the end of the charge to raise the electrolyte level to the bottom of the vent well. Water should be stored in a clean, non-metallic container as impurities, even in small amounts, may be harmful to battery life.
- 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.
- 4. Specific gravity readings should be recorded for all cells once each month immediately after an equalizing charge. If the readings average below 1.265 the charger output should be checked. If two successive monthly readings indicate more than 20 points deviation in any cell from the average specific gravity, you should contact your Deka representative.
- 5. The top of the battery should be kept clean and dry at all times. When required, the top of the battery should be neutralized with a non-corrosive water based neutralizing

solution. Make sure vent caps are securely in place to prevent any solution from entering cells. After the battery has been neutralized, rinse thoroughly with clean water and dry.

- 6. The **cables and connectors** should be **inspected monthly** for exposed copper wires, fraying or cracked insulation, loose connections, or pitted contacts, and repaired as required.
- 7. Depending on type of service, it will be necessary to remove the "no corrode" gel, re-torque to 150 in/lbs, and re pack with new "no corrode" gel each E-Z Link assembly on a semi-annual or annual frequency.
- 8. Be especially careful to keep metallic objects off the top of the battery, as any metal touching two or more connectors may cause a short circuit resulting in an arc or spark which could ignite battery gasses explosively.
- **9. The output rate of the charger should be checked period** ically. The starting rate should correspond to the starting rate shown on the charger nameplate. The following chart shows the ampere hour capacity at the six-hour rate, as well as the recommended finish rate for every cell size in the "E-Z LINK" line manufactured by East Penn Manufacturing Co.

ТҮРЕ	PLATES PER CELL	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33
D35	6 HR. A.H. RATING	70	105	140	175	210	245	280	315	350	385	420	455	490	525	560
	FINISH RATE—AMPS	4	5	7	9	10	12	14	16	18	19	21	23	24	26	28
D45	6 HR. A.H. RATING	90	135	180	225	270	315	360	405	450	495	540	585	630	675	720
	FINISH RATE—AMPS	4	7	9	11	14	16	18	20	22	25	27	29	32	34	36
D55	6 HR. A.H. RATING	110	165	220	275	330	385	440	495	550	605	660	715	770	825	880
	FINISH RATE—AMPS	6	8	11	14	16	19	22	25	28	30	33	36	38	41	44
D65	6 HR. A.H. RATING	130	195	260	325	390	455	520	585	650	715	780	845	910	975	1040
	FINISH RATE—AMPS	6	10	13	16	20	23	26	29	32	36	39	42	46	49	52
D75	6 HR. A.H. RATING	150	225	300	375	450	525	600	675	750	825	900	975	1050	1125	1200
	FINISH RATE—AMPS	8	11	15	19	22	26	30	34	38	41	45	49	52	56	60
D85	6 HR. A.H. RATING	170	255	340	425	510	595	680	765	850	935	1020	1105	1190	1275	1360
	FINISH RATE—AMPS	8	13	17	21	26	30	34	38	42	47	51	55	60	64	68
D100	6 HR. A.H. RATING	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
	FINISH RATE—AMPS	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
D110	6 HR. A.H. RATING	220	330	440	550	660	770	880	990	1100	1210	1320	1430	1540	1650	1760
	FINISH RATE—AMPS	11	16	22	28	33	38	44	50	55	60	66	72	77	82	88
D125	6 HR. A.H. RATING	250	375	500	625	750	875	1000	1125	1250	1375	1500	1625	1750	1875	2000
	FINISH RATE—AMPS	12	19	25	31	38	44	50	56	62	69	75	81	88	94	100
D150	6 HR. A.H. RATING FINISH RATE—AMPS			600 30	750 38	900 45	1050 52	1200 60	1350 68	1500 75						
D160	6 HR. A.H. RATING FINISH RATE—AMPS			640 32	800 40	960 48	1120 56	1280 64	1440 72	1600 80						





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