

# Less Watering. Less Maintenance.



# DeKa<sup>®</sup>

## HydraSaver<sup>®</sup>

MOTIVE POWER BATTERIES

QUALITY SYSTEM  
CERTIFIED  
**ISO 9001**  
**ISO/TS 16949**  
ENVIRONMENTAL  
SYSTEM CERTIFIED  
**ISO 14001**

 **EASTPENN**



MADE IN U.S.A.  
WITH U.S. AND  
IMPORTED MATERIALS



## Deka's HydraSaver® battery extends watering intervals and offers reduced maintenance features.

**Bolt-on positive and negative terminals and cables simplify replacement and reduces safety hazards.**



**LED water level indicator warns user when battery needs to be watered.**

Maintenance costs go down when you extend your battery's watering intervals from 1-2 weeks to 9-10 weeks. Unlike other competitive extended watering interval batteries, the Deka HydraSaver® uses different alloy combinations and separator material that results in less water consumption. In addition, the Deka HydraSaver® offers the following reduced maintenance features:

- Bolt-on positive and negative terminals and cables simplify replacement and reduces safety hazards
- A water level indicator LED warns you when the battery needs to be watered
- Flip-top Water Miser™ easy open and close vent caps help extend watering intervals

### The Four Questions Every Customer Should Ask About Extended Water Interval/Reduced Maintenance Batteries:

#### 1 Are claims of only having to water the battery 4 times per year accurate?

*No – Our competitive testing of the two most popular products on the market revealed a watering interval range of 7-9 weeks, not the 12 weeks that are advertised. The 7-9 week watering interval occurred in both laboratory and actual usage testing.*

#### 2 Will there be any change in watering intervals as the batteries age?

*Yes – Extended watering products on the market contain a lead antimony alloy. As the battery ages, a phenomenon known as antimony migration occurs, in which the antimony alloy in the positive plate grid transfers to the negative plate. This results in a reduction of battery voltage over time, requiring a higher rate of charge to fully recharge the battery. This higher rate of charge will result in an increased level of water usage. The battery will have to be watered more frequently.*

**This is an electro-chemical reaction in all lead-antimony alloy motive power batteries regardless of manufacturer. There are no miracle additives that can slow or eliminate the antimony migration process.**

#### 3 Can you increase watering intervals by adding additional electrolyte above the cell's elements?

*Yes – But, because battery heights are limited due to lift truck compartment sizes, the only way this can be accomplished is either by shortening the plate heights or lowering the elements in the jar to create more electrolyte head space. If plates are shortened, amp hour capacity will decline. If the element is lowered in the jar, the sediment space is reduced. The smaller the sediment space, the sooner it will fill with shedding active material, especially in tubular battery designs. A full sediment chamber will eventually cause internal shorts and premature cell failures.*

#### 4 Does the HydraSaver require a special charger?

*No – But a 100% Ferroresonant charger will maximize watering intervals. Use of a 100% SCR charger may slightly increase watering frequencies.*

Cell Type	A.H. Cap. Per Cell @ 6 Hr. Rate	K.W.H. Cap. Per Cell @ 6 Hr. Rate
H80-5	160	0.307
H80-7	240	0.461
H80-9	320	0.615
H80-11	400	0.769
H80-13	480	0.922
H80-15	560	1.076
H80-17	640	1.230
H80-19	720	1.383
H80-21	800	1.537
H80-23	880	1.691
H80-25	960	1.845
H80-27	1040	1.998
H80-29	1120	2.152
H80-31	1200	2.306
H80-33	1280	2.460
H120-7	360	0.692
H120-9	480	0.922
H120-11	600	1.153
H120-13	720	1.383
H120-15	840	1.614
H120-17	960	1.845
H120-19	1080	2.075
H120-21	1200	2.306
H120-23	1320	2.536
H120-25	1440	2.767



e-mail: [epmmotive@eastpenn-deka.com](mailto:epmmotive@eastpenn-deka.com) [www.dekabatteries.com](http://www.dekabatteries.com)



East Penn Manufacturing Co. Lyon Station, PA 19536-0147 Phone: 610-682-6361 Fax: 610-682-4781 Order Hotline: 610-682-3260