The NexSys® 2 volt cells are constructed using pure lead plates that are much thinner than lead calcium/antimony grids.

Pure lead grain structure makes the grid far more resistant to corrosion. Positive and negative plates are low impedance enabling high current flow in both discharge and recharge modes. The electrolyte is absorbed in a superior quality microporous glass mat separator with high absorption and stability designed to enhance cyclic capability. Cell boxes are highly resistant to shock and vibration.

NexSys is the only range of Valve Regulated Lead Acid batteries to provide equivalent or higher ampere hour capacity to traditional flooded batteries. NexSys batteries are available in two different packages depending on the application needs.

**NEXSYS® STANDARD PACKAGE FULL FLEXIBILITY WITH VIRTUALLY NO MAINTENANCE**

With the Standard package, you can fulfill your standard duty applications, where you need a robust battery up to 100% energy throughput per day with a limited amount of opportunity charging. You will also have the benefits of virtually no maintenance, extremely reduced gas emissions and the best cyclability available from lead-acid batteries, up to 1560 cycles @ 60% depth of discharge. All this added to 7-day operation per week. The Standard package comes with NexSys, NexSys+ and NexSys COMpact chargers, making it the most flexible and adaptable energy pack on the market.

**NEXSYS FAST PACKAGE FAST CHARGE PACKAGE**

Unlike conventional lead-acid batteries where the state of discharge reaches a specified level and then requires recharging for 8-12 hours, NexSys with Fast package is totally flexible giving increased autonomy to the user. The specific charging profile allows a rapid recharge in less than 4 hours from 60% DOD and opportunity charging as often as needed, without damaging NexSys batteries (from 40% to 80% state of charge in 1h and to 98% in 2h). These specialized charging capabilities are standard features in the NexSys, NexSys+ and NexSys COMpact chargers.

**TOTAL CONNECTIVITY**

The other integral part of the NexSys system is the Wi-iQ® monitoring device, which precisely manages the charging profile to suit the state of charge and operating conditions of the battery as well as storing complete data of the battery’s service life. Wi-iQ enables temperature control, making possible to work in cold environments, and meaningful fleet management reports.

**EVEN MORE APPLICATIONS**

NexSys batteries are suitable for use in the following Material Handling Equipment:

- Counterbalance trucks
- Reach trucks
- Pallet trucks
- Order pickers
- AGV/LGV
CUSTOMER BENEFITS

• Superior and stable performance even at high discharge rates (high energy density)

• Operating in PSOC (Partial State of Charge) – machine availability optimization

• Opportunity charging whenever the truck is not used- can minimize the need for spare batteries and battery changing

• Short recharge time – less than 4 hours from 60% DOD with matched NexSys, NexSys+ and NexSys COMpact chargers*

• Virtually maintenance free – no topping up

• Suitable for multi-shift operations

• Excellent cycle life (up to 1560 cycles at 60% DOD)

• High energy throughput (up to 160% of C_5 per 24 hours)**

• Minimum gassing-ideal for use in sensitive manufacturing areas

• Environmentally friendly – reduced carbon footprint and electricity consumption due to very low charge factor

The designated charging rate for NexSys® is between 0.2-0.4 C_5 giving optimum performance, recharge time and cycle life.

* for 0.4 C_5 charging rate

** maximum DOD must be observed

The state-of-art technology of NexSys® batteries allows exceptional performances, the most efficient lead-acid system in the market and a long list of benefits compared to conventional gel batteries and to Lithium-ion batteries.
WHEREVER YOU DO BUSINESS, ENERSYS® CAN SUPPORT YOU WITH MOTIVE POWER ENERGY.

ABOUT ENERSYS

EnerSys®, the global leader in stored energy solutions for industrial applications, manufactures and distributes reserve power and motive power batteries, battery chargers, power equipment, battery accessories and outdoor equipment enclosure solutions to customers worldwide.

Motive power batteries and chargers are utilized in electric forklift trucks and other commercial electric powered vehicles.

 Reserve power batteries are used in the telecommunication and utility industries, uninterruptible power supplies, and numerous applications requiring stored energy solutions including medical, aerospace and defense systems.

With the recent Alpha acquisition, EnerSys provides highly integrated power solutions and services to broadband, telecom, renewable and industrial customers.

Outdoor equipment enclosure products are utilized in the telecommunication, cable, utility, transportation industries and by government and defense customers.

The company also provides aftermarket and customer support services to its customers in over 100 countries through its sales and manufacturing locations around the world.

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