A hybrid power approach can get productivity on track

From flooded lead acid to Lithium-ion, material handlers have more battery chemistry options for their lift trucks than ever before. And by applying the right data, many operations have discovered that a hybrid power approach is their most cost-effective choice.

Flooded lead acid – the proven workhorse

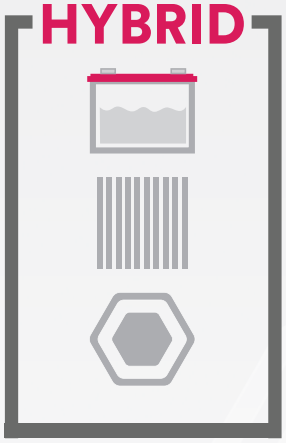
For well over a century, flooded lead acid batteries have been the work-horse of the industrial world. Robust and dependable, they still serve an essential role in powering today's lift truck fleets. However, their watering, charging and changing requirements are labor- and time-intense.

To help lessen these challenges, EnerSys® developed the Ironclad® Deserthog® battery – a low-maintenance flooded lead acid option that extends watering intervals from once a week to every few months. EnerSys also provides scheduled maintenance services that include battery watering, so operators can devote more time to profitable activities.

Thin Plate Pure Lead (TPPL) and Lithium-ion (Li-ion) – the new thoroughbreds

In the last few decades, rapidly advancing battery chemistries like Thin Plate Pure Lead (TPPL) and Lithium-ion (Li-ion) have been gaining on flooded batteries. Neither requires watering, and both enable faster, more flexible charging that can eliminate the need for battery change-outs and additional battery rooms.

EnerSys offerings for each chemistry include NexSys® PURE batteries with TPPL technology, and NexSys iON batteries, which feature the industry's most advanced Li-ion technology. Both NexSys battery chemistries provide more productive, predictable power that slashes unplanned downtime and the unexpected operating costs associated with conventional lead acid batteries.



Teaming up for a hybrid power approach

As many warehouses and Distribution Centers (DCs) are discovering, installing flooded lead acid, TPPL and Li-ion batteries does not need to be an either/or choice. Rather, these different chemistries can complement each other by powering different lift truck applications in the same facility. It's an emerging hybrid approach that can boost productivity and cut Total Cost of Ownership (TCO).

For example, flooded lead acid batteries are often most cost-effective in single-shift operations. TPPL technology is generally ideal for light- to medium-duty applications in multi-shift operations. Li-ion batteries are usually a better fit for heavy-duty multi-shift applications. While each chemistry has its own advantages, each may be a better fit for a given application based on specific amp hour, life cycle and budget demands.

EnSite

Start by assessing your power needs

So how can you determine if a hybrid power approach makes sense for your operation? By working with a provider that can conduct a site study/power survey to quantify your unique requirements. Using our proprietary Ensite modeling software, EnerSys® can do exactly that.

First, an EnerSys Technical Sales Representative (TSR) will work with your team to collect data about your vehicle, shift and amp-hour requirements. Next, the TSR will enter your numbers into the Ensite software. After considering multiple site-specific factors, the software compares different battery chemistry options to find the lowest TCO solution for every application.

››› Connect with EnerSys today for an Ensite site study and power survey.

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