

As Tunisia's leading battery expert, ASSAD stands out for its leading position on the African continent. We specialize in the manufacture and commercialization of various types of lead-acid accumulators and high-end industrial batteries.

Thanks to its subsidiaries and companies, ASSAD group is the industrial leader in batteries in Tunisia and remains a key reference in the African continent. ASSAD is a pioneer in the manufacturing and marketing of lead-acid batteries and has been serving its customers for over 70 years.

Results show that the HESS plus the EMS has the effect of prolonging the battery lifetime and the HESS is economically effective compared to the single battery case. A hybrid energy storage system (HESS), which consists of a battery and a supercapacitor, presents good performances on both the power density and the energy

For over 70 years, the ASSAD Group has been the undisputed leader in the battery sector in Tunisia, and remains a major reference on the African continent. Our expertise in the manufacture and marketing of lead-acid and industrial batteries is recognized worldwide.

In HESS, Battery-SC, combinations of Battery Energy storage systems (BESS), BESS-FC and SC-Fuel cell (FC) combinations are frequently used. Among these hybrid storage systems, BESS-SC is popular and the battery performance of battery is enhanced by reducing the stress during the transient period .

For ACTIA Africa, this partnership with the regional battery industry leader opens up new prospects for applications of its historical know-how in embedded electronics and electronic systems...

their renewable energy potential, such as Tunisia. The objective of this report is to look into the potential of Battery Energy Storage System (BESS) development in Tunisia, in line with national efforts towards a clean and sustainable energy transition as well as ensuring the optimal use of energy sources and improving energy security.

**Abstract:** This paper deals with the optimal sizing and cost assessment of onboard battery hybrid energy storage system (HESS) for full-electric marine applications. In this regard, a harbor tug is selected as the use case and the cost of different full-active HESS topologies is compared against a baseline topology with a single type battery.

A Battery Thermal Management System will be developed to maintain the battery in ideal conditions, while controlling temperature increase below 45°C, when 5C discharge current occurs. This progress allows to achieve a powerful battery (>20% of the current one) and reducing the investment cost by downsizing

the battery system, with respect a ...

This paper presents the design of an HESS that enables for the desired performance characteristics of an HEV in terms of power and energy requirements. The HESS is composed with Lithium-ion battery and super-capacitors packs. Each single storage element is connected via a particular DC/DC power converter to a common DC-link.

Web: <https://ecomax.info.pl>

