

Kongres Container

Portable mobile power communication BESS



Overview

What are the benefits of using a small mobile Bess?

The benefit of using a small mobile BESS that is most often promoted is reduced fuel consumption and associated greenhouse gas emissions. Gensets in temporary power applications often run at 30% load or less.

What is the storage capacity of a Bess system?

Storage capacities range from a few kilowatt-hours (kWh) for residential systems to multiple megawatt-hours (MWh) for grid-scale applications. BESS can be either stationary for fixed installations or mobile with robust designs for repeated relocations and swift deployment.

Can a Bess transport energy for recharging battery electric machines?

Using a BESS to transport energy for recharging battery electric machines can be the key factor in making a project viable for transitioning from diesel-powered machinery. This whitepaper does not cover every possible application but aims to highlight potential opportunities where a BESS can add significant value.

What is a small mobile Bess?

Small mobile BESS typically feature separate input and output connections, unlike the bi-directional connection often found on larger BESS. This configuration places synchronization controls within the BESS itself, simplifying installation and allowing connection to a standard generator set with non-synchronizing controls.

What is a Bess power rating?

A BESS will have a power rating in kVA or kW and an energy storage capacity in kWh. The power rating is typically the rating of the inverter, but this can be limited by the maximum discharge rate of the batteries.

What is a Bess & how does it work?

A BESS can assist in the transition from diesel-powered plant machinery to battery electric machines (BEM). In situations where a small BEM might not be considered practical, due to energy limitations to cover a full shift and no local access to a utility supply, a small BESS can make the project viable.

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