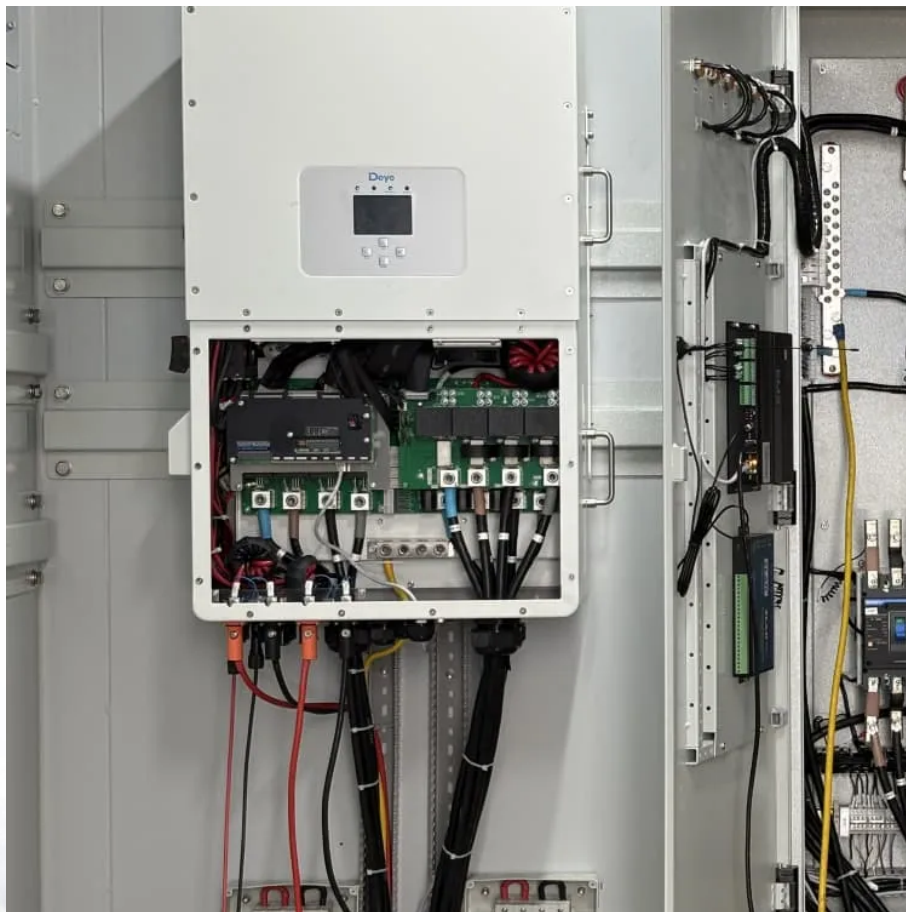


Comparison between a 10kW photovoltaic container and a diesel engine





Overview

Can a diesel generator be used as a photovoltaic system?

In combination, diesel generators and photovoltaic systems are very well suited to energy supply in areas with an unstable or non-existent mains supply. The additional use of solar energy reduces fuel consumption, which saves costs. Furthermore, the integration of a PV system brings a sustainable factor into the system.

Can a diesel generator be converted into a solar/diesel hybrid system?

For this reason, there is a clear financial justification for converting almost every diesel-powered system into a solar/diesel hybrid system. Every unused diesel kWh saves money. The combination of diesel generators with PV systems quickly pays for itself through the large savings in fuel costs.

Why should you integrate photovoltaics into diesel power systems?

Integrating photovoltaics into existing diesel power systems enables reductions in fuel costs and guarantees an efficient electricity supply. PV-diesel solutions offer independence from rising diesel prices and reduce operating- and maintenance costs, especially in remote areas far from the utility grid.

What is a solar PV-diesel hybrid system?

Additional battery storages can compensate fluctuations in load and irradiation, providing spinning reserve and facilitating optimized diesel operation. A Solar PV-Diesel Hybrid System combines the power output of PV arrays and the diesel generators.



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