



Flywheel vehicle energy storage





Overview

Compared with other ways to store electricity, FES systems have long lifetimes (lasting decades with little or no maintenance; full-cycle lifetimes quoted for flywheels range from in excess of 10 , up to 10 , cycles of use), high (100-130 W·h/kg, or 360-500 kJ/kg), and large maximum power output. The (ratio of energy out per energy in) of flywheels, also known as , can be as high as 90%. Typical capacities range from 3 to 13.



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Compared with other ways to store electricity, FES systems have long lifetimes (lasting decades with little or no maintenance; full-cycle lifetimes quoted for flywheels range from in excess of 10, up to 10, cycles of use), high specific energy (100-130 W·h/kg, or 360-500 kJ/kg), and large maximum power output. The energy efficiency (ratio of energy out per energy in) of flywheels, also known as round-trip efficiency, can be as high as 90%. Typical capacities range from 3 kWh to 13...

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Efficiency Solution

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