



FTMRS SOLAR

RV Energy Storage New Energy Fast Charging





Overview

Do EVs need fast charging?

As there are not enough raw minerals for every internal combustion engine car to be replaced by a 120 kWh-equipped EV, fast charging is imperative for EVs to go mainstream. Battery fast charging must be evaluated by three metrics simultaneously: (1) charge time, (2) specific energy acquired and (3) cycle number under the fast charge condition.

Can electric vehicle batteries increase cruise range?

Electric vehicle (EV) batteries must possess high energy density and fast rechargeability. Next-generation batteries with high specific capacity anodes are expected to reach more than 350 Wh kg^{-1} (ref. 2), which could increase cruise range to greater than 400 miles (Supplementary Fig. 1a).

Should EV batteries be fast charged?

Ten-minute fast charging enables downsizing of EV batteries for both affordability and sustainability, without causing range anxiety. However, fast charging of energy-dense batteries (more than 250 Wh kg^{-1} or higher than 4 mAh cm^{-2}) remains a great challenge 3, 4.

How to evaluate battery fast charging?

Battery fast charging must be evaluated by three metrics simultaneously: (1) charge time, (2) specific energy acquired and (3) cycle number under the fast charge condition. Lack of any of the three numbers is inadequate or misleading. Such a figure of merit plot compiling all literature data is displayed in Fig. 1.



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A Review of Fast Charging Technology for Power Batteries in New Energy

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