

## Why do BMS need 1500V DC instead of 1000v?

BESS stations are increasingly using 1500V DC instead of 1000V to improve power density and system efficiency and reduce installation costs. The need to upgrade intelligent high voltage (IHV) to 1500V/400A to meet system voltage requirements means the BMS for battery racks must also resist 1500V.

What is the maximum DoD for a flow battery?

Generally, the maximum DoD is set at 90% for BESS. Round-trip Efficiency: It is the percentage of energy delivered by the BESS during discharging when compared to the energy supplied to the BESS during charging. Flow battery technology has lower round-trip efficiency compared to Lithium-ion batteries.

What is the proportional error in 1500V ESS?

Considering 1500V BESS, voltage gain  $\leq 400$ , and  $R_{ladder} + R_{sense} \leq 10M\Omega$ . Then the constant error is less than 1.464V in 1500V ESS. This constant error is too small to be ignored or easily calibrated. The proportional error is related with  $R_{sense}\%$  and  $R_{ladder}\%$ . Assuming the  $R_{sense}\%$  and  $R_{ladder}\%$  are in range of  $\pm 1\%$ .

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This reference design is a high-voltage, current and insulation impedance accuracy lithium-ion (Li-ion), LiFePO<sub>4</sub> battery rack. The design monitors four high-voltage bus inputs, one shunt ...

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