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## Energy Storage Bidirectional DC/DC Converter





### **Energy storage bidirectional DC/DC converter**

The EPCS series energy storage bidirectional DC/DC converter is based on a three-level topology structure, which can achieve bidirectional conversion from DC to DC. It has advantages such as bidirectional wide voltage range, bidirectional voltage and current active control, high power density, and natural heat dissipation.

Rated power 50kW

Low voltage side: 0~750Vdc

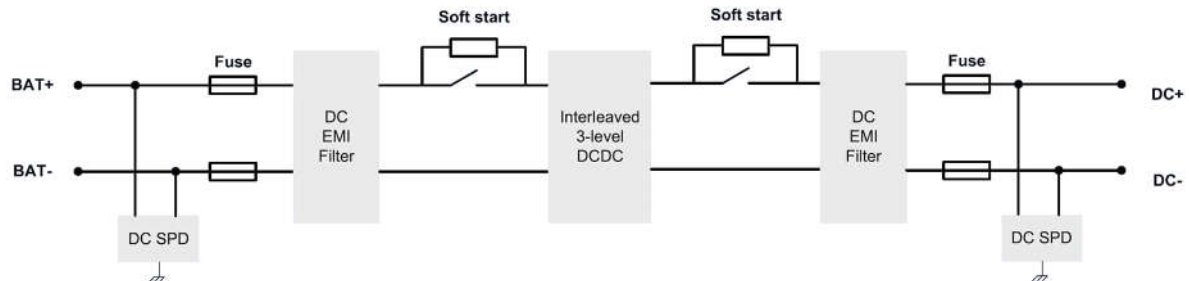
High voltage side: 300~850Vdc

(the high voltage side must be 50Vdc higher than the low voltage side)

Maximum current: 80A low-voltage side

The bidirectional DC/DC converter adopts a three-level topology structure. It is not only suitable for battery boost or buck scenarios, but also for photovoltaic MPPT boost and buck.

## Working principle



## Operation mode

Bidirectional DC/DC, constant voltage, constant current, or constant power

Boosting

Boost MPPT, buck MPPT

## Application

Cooperate with bidirectional energy storage ACDC to expand the voltage range on the DC side of ACDC

Used in conjunction with photovoltaic panels, running MPPT, combined with bidirectional ACDC modules, to form a hybrid photovoltaic+BESS energy storage inverter.

**Dimension**

