

Bidirectional DC/DC converters

- With a wide range of voltage levels in both sides, the EPCs (Epic Power converters) are capable to manage power in both directions.

As a typical application, the low side voltage can be connected to batteries or ultracapacitors to feed a variable frequency drive (VVF) through a DC link. This allows the system to continue operation in case of mains supply lack and is suitable for off-grid applications without three-phase mains, or, for example, in automatic warehouses, when the platforms are moving off-grid.

- High efficiency, achieved with silicon carbide transistor technology
- Power scalable
- Works with supercapacitors
- MPPT (maximum power point tracking)
- Galvanic isolation
- Maintains the DC link voltage in the absence of main supply
- Soft pre-charge of the DC link. Suitable to switch on/off the drive as many times as required in order to save energy and life expectancy
- Automatic change of power flow to stabilize either input or output voltage without stopping voltage regulation
- Battery SOC (state of charge) and SOH (state of health) estimator
- CAN communication available to implement voltage or current control and transmit relevant measurements of operation parameters (voltage, power, current, temperatures, etc.)
- Customized versions available upon request

More information

- DC/DC converters website: <https://epicpowerconverters.com/products/dc-dc-converters/>
- General brochure: <https://epicpower.es/wp-content/uploads/2017/10/EPC-ENG.pdf>
- Applications brochure: https://epicpower.es/wp-content/uploads/2019/05/EPC_ENG_2019_brochure_.pdf
- Data sheet: <https://epicpower.es/wp-content/uploads/2020/05/EPC-isolated-bidirectional-dc-dc-converters-rev1.8.pdf>

Contact

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Features

No features listed.