

# **AC DC Isolation Inverter**





## Overview

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What is an isolated DC-DC converter?

Isolated DC-DC converters can be used to convert voltages between different parts of a system that may have different ground potentials. This makes them highly adaptable in complex multi-stage power supply systems. The primary difference between isolated and non-isolated DC-DC converters is the presence of galvanic isolation.

Why should you choose MPS's isolated DC/DC converters & modules?

MPS's isolated DC/DC converters & modules provide engineers with a superior isolation barrier that more easily meets design specifications, reduces magnetic interference, and comes in a smaller, low-profile size with standard packaging that makes application simple and reliable.

What is DC/DC isolation?

Isolation in terms of DC/DC converters refers to galvanic isolation which means that there is no metallic / direct conduction path between two parts of the circuit. The isolation will always present a barrier between the input stage and the output stage and may be required for circuit functionality, safety, or both.

What is the difference between an isolated converter and a transformer?

They are used in applications where safety concerns are minimal, and the input and output grounds can be connected directly. In contrast, isolated converters are more complex and tend to be slightly less efficient due to energy losses in the isolation transformer and other associated components.



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### AC/DC & Isolated DC/DC Converters , Renesas

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## Isolated DC/DC Converters & Modules

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