

POWER MANAGEMENT SOLUTIONS

EFFICIENT, RELIABLE, SCALABLE

ADVANCED DC-DC CONVERTERS
FOR OPTIMIZED PERFORMANCE



INDUSTRIAL POWER SOLUTIONS

Modular AC-DC Power Supplies offer versatile, configurable and programmable voltage and current outputs for industrial equipment, ensuring precision and efficiency in demanding environments.

Explore the range:
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POWER UP WITH RELIABLE CABLES & CONNECTORS

Maximize system performance with high-quality silicone-insulated cables, tinned copper wire, and high-voltage power cables, paired with reliable connectors for secure connections across various applications.

Explore the range:

Cables - [Click here](#) ▶

Connectors - [Click here](#) ▶

TECHNICAL RESOURCES

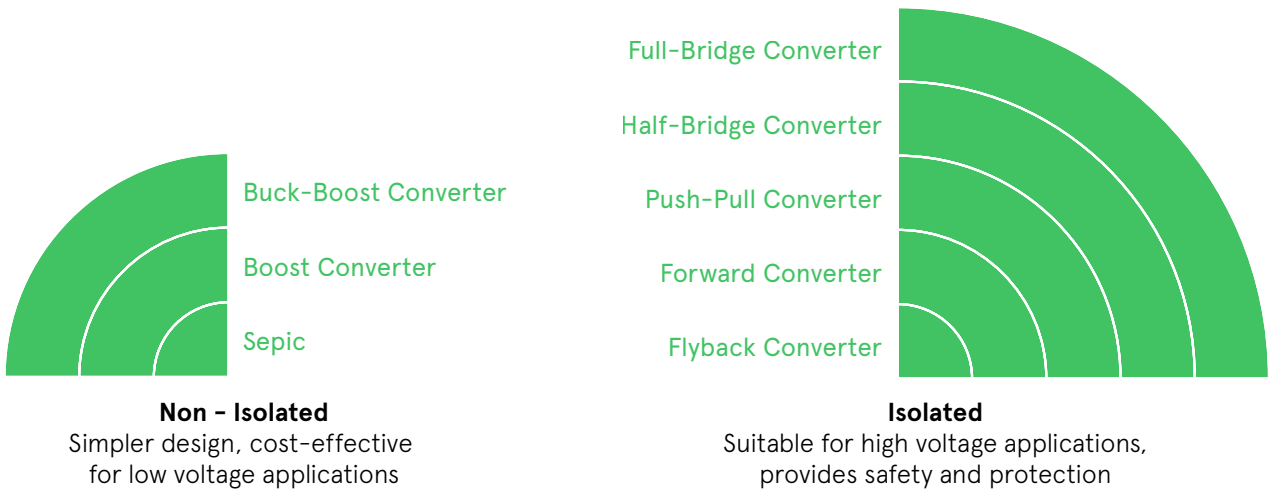
Explore our well-curated library of whitepapers, technical articles, videos, training modules, tutorials, and more to support you in developing your designs, business, and career.

Explore the range:
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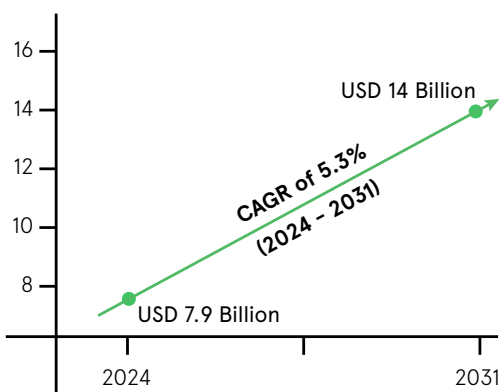
DC-DC Converters

Discover extensive range of DC-DC converters, engineered for design excellence and industry-leading performance. Our portfolio features high-efficiency converters from industry-leading suppliers, ideal for consumer electronics, automotive, and industrial applications, they ensure reliable power solutions. Access the best products and expert support through our global network.



Market Trends

Global market key findings



Global DC - DC Converters market trend by end user

Energy & power 24.85% Buck, Boost, Buck - Boost, SEPIC, Flyback, Forward, Push-Pull, Half & Full Bridge	Automotive 20.14% Buck, Boost, Buck - Boost, SEPIC, Push - Pull, Half-Bridge	Telecommunication 16.44% SEPIC, Forward, Full Bridge	
	Consumer Electronics 19.32% Buck, Boost, Buck - Boost, Flyback, Push-Pull	Aerospace & Defense 9.45% SEPIC, Buck, Boost, Flyback	Healthcare 7.62% Flyback, Buck, Boost

Key Suppliers



/Types

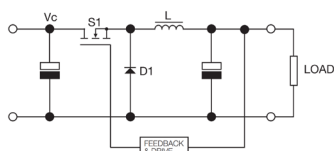
Buck Converters



Reduce input voltage to a lower output voltage

Applications:

- Consumer electronics
- Automotive electronics
- Power supplies



Onboard



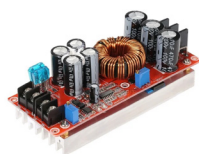
- Line converters
- Power distribution switches
- Voltage regulators
- MOSFETs

Offboard



- DIN rail mount converters
- Buck Converter modules

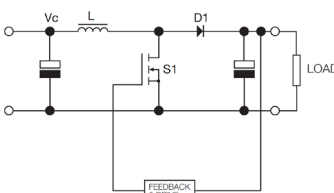
Boost Converters



Increase input voltage to a higher output voltage

Applications:

- Power amplification
- Renewable energy systems
- Automotive electronics
- Battery power systems
- Consumer electronics



Onboard



- Line converters
- Power distribution switches
- Voltage regulators
- MOSFETs

Offboard



- DIN rail mount converters
- Boost Converter modules

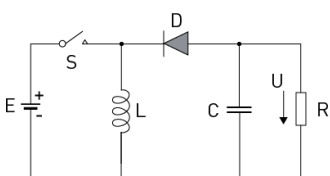
Buck - Boost Converters



Can either increase or decrease input voltage

Applications:

- Renewable energy systems
- Automotive electronics
- Consumer electronics



Onboard



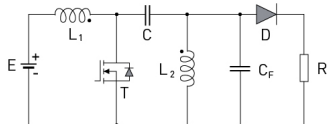
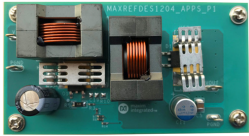
- Line converters
- Power distribution switches
- Voltage regulators
- MOSFETs

Offboard



- DIN rail mount converters
- Buck- Boost Converter modules

SEPIC Converters



Can adjust output voltage higher, equal to, or lower than input voltage.

Applications:

- Battery power system
- Industrial & Automotive
- Communication devices

Onboard



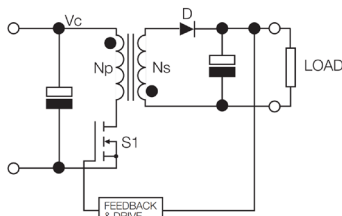
- Line converters
- Power distribution switches
- Voltage regulators
- MOSFETs

Offboard



- Boost Converter modules

Flyback Converters



Use a coupled inductor to store and release energy

Applications:

- Medical devices
- Power supplies for Consumer appliances
- Aerospace engineering

Onboard



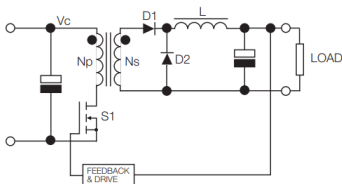
- Schottky diodes
- Line converters
- ICs

Offboard



- PWM controllers
- PoEs
- Development kits

Forward Converters



Use a transformer to isolate the input and output.

Applications:

- Communication devices
- Battery powered systems
- Power supplies for Consumer appliances

Onboard



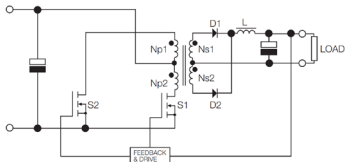
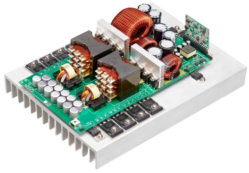
- Line switchers
- Self isolating half bridgedriver IC
- Evaluation kits
- MOSFETs

Offboard



- PWM controllers
- PoEs
- Development kits

Push-Pull Converters



Use two transistors to provide high-efficiency voltage conversion.

Applications:

- Renewable energy systems
- Power supplies for Consumer appliances
- Automotive electronics

Onboard



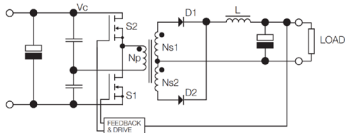
- PWM controllers
- Evaluation kits

Offboard



- Isolated power supplies for medical devices

Half-Bridge Converters



Use a transformer for electrical isolation and can provide higher or lower output voltage.

Applications:

- SMPS
- Motor Drives & Inverters

Onboard



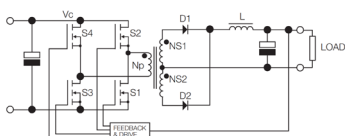
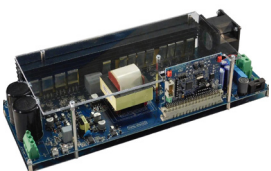
- ICs

Offboard



- Isolated power supplies for medical devices

Full-Bridge Converters



Use four switches and a transformer to efficiently change DC voltage.

Applications:

- Automotive EVs and HEVs
- Renewable Energy
- Communication devices

Onboard



- MOSFETs drivers
- Isolated surface mount converters
- Evaluation kits

Offboard



- Isolated DIN Rail mount DC/DC converters
- UPS



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ASSEMBLE
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for tomorrow's **success****

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