

# AC-DC POWER SUPPLY UNIT

*Support the Needs of Various Electrical Components*

## AC-DC Power Supply Unit

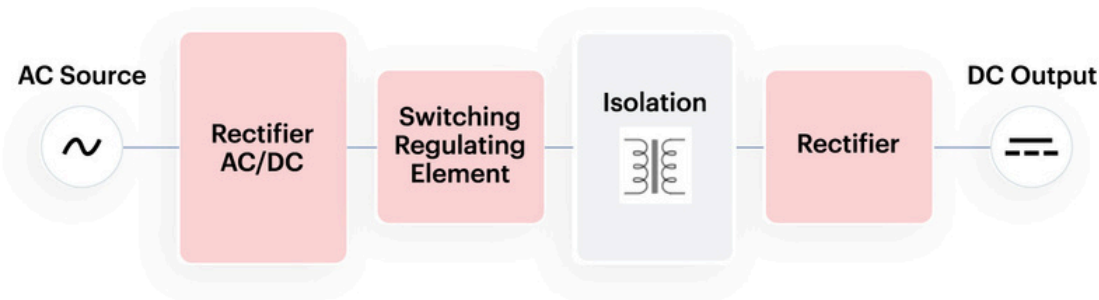
An AC-DC power supply unit is an electrical device that converts alternating current (AC) from the grid into appropriate currents and voltages to supply our electronics and appliances that leverage direct current (DC) power. Different power supplies and specs are required to support the needs of various electrical components.

## Safely Stabilizing Power Sources When Needed

AC-DC power supplies are found in several applications — from industrial equipment to EV chargers and beyond. Safety should always be a priority when specifying AC-DC power supplies, which requires the ideal input and output voltage ranges for the application.

Market trends are driving demand for smaller AC-DC power supplies that can handle a wide range of voltages while maintaining efficiency, making designing them a challenge.

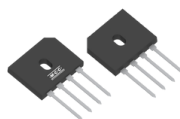
## Block Diagram



## Key Application Considerations

- Accuracy of input/output voltage range
- Efficiency and safety
- Electromagnetic interference (EMI) & Electromagnetic compatibility (EMC)
- Applications for 20W to 75W

## Recommended Products



**Bridge Rectifiers**  
50-1000v

- [GBU4M](#)
- [KBP210G](#)



**Voltage Regulators**  
5v

- [MC7805CT](#)



**Schottky Barrier Rectifiers**  
80-200v

- [MBR10100CT](#)
- [MBR20200CT](#)