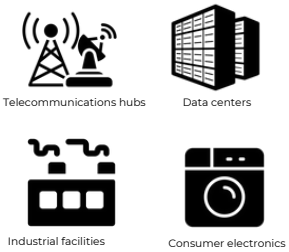
UNINTERRUPTIBLE POWER SUPPLY (UPS)

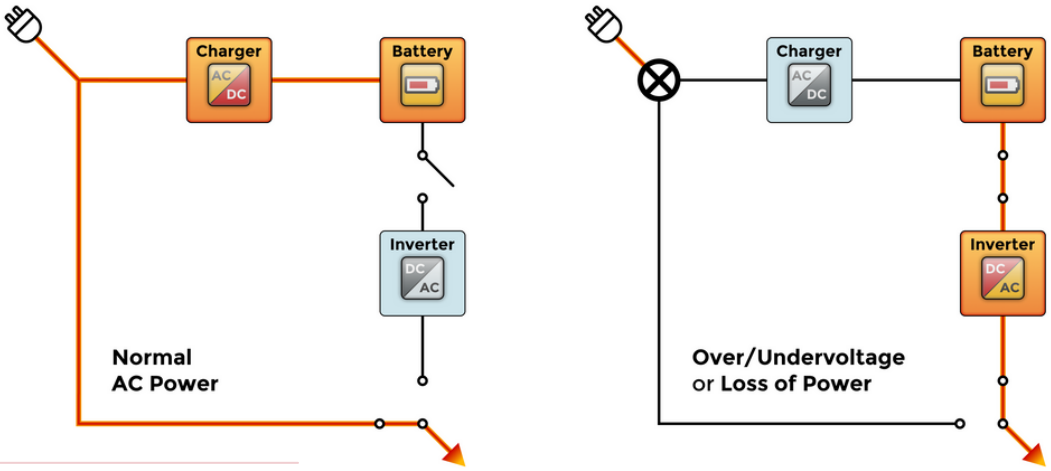
Maintaining Mission-Critical Operations

Reliable Protection & Performance for Unpredictable Disruptions

While no one can predict a power outage, uninterruptible power supplies (UPS) protect critical data during a short-term disruption. Offline or standby UPS systems are connected to the grid. When the power goes out, the battery switches on, delivering 5-20 minutes of reaction time to save data that would otherwise be lost or properly power down sensitive equipment. Choosing the right components is essential for reliable UPS performance in a range of applications.



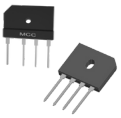
Block Diagram



Key Design Considerations

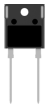
- Size
- Input regulation
- Output
- Topology
- High current capability
- High-temperature capability
- Protection from overloads and transients
- Minimizing power, switching, and conduction losses
- Industry standards and regulations

Recommended Products



Bridge Rectifiers
800V

- GBU25L08
- GBJ1508



SiC Schottky Barrier Rectifiers
650-1200V

- SICPT40120YA
- SICPT4060DY
- SICPT20120Y

Power SiC MOSFETs
1200V

- SICW080N120Y
- SICBG160N120A

IGBTs
650-1200V

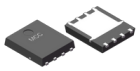
- MIW75N65F
- MIW40N120FLA

FRED Rectifers
800V

- MUR1080CT
- MUR8100F

TVS Diodes
Wide selection of diodes

- SMAJxxA Series
- SMA6JxxA Series
- SMBJxxA Series
- SMBFxxA Series



MOSFET
150V

- MCAC80N15Y

POWERED BY SERVICE