

# ENABLING ENERGY STORAGE SYSTEMS (ESS)

Enhancing Energy Storage Efficiency through Robust Performance

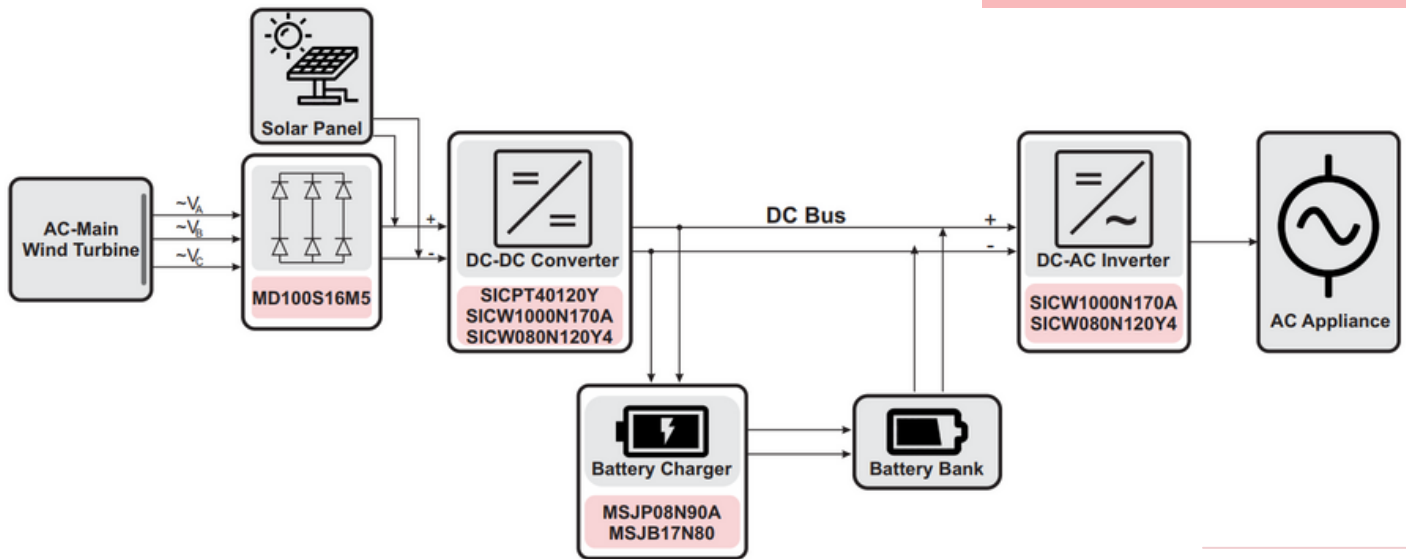
## MCC's Discrete Semiconductors Drive Efficiency and Reliability

As the world continues to push for renewable energy and electric vehicles, capturing, storing, and utilizing power has never been more important. The energy storage system market is rapidly evolving to find smarter, more flexible, and reliable energy usage and optimization.

### Solutions & Features

MCC's semiconductor solutions meet or exceed the power handling and design specifications energy storage systems require. And, they do it with shorter-than-average lead times and the highest quality.

### Block Diagram



**Power your energy storage devices with quality products, shorter lead times, and competitive pricing.**

#### Power Modules

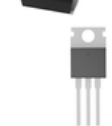
##### Three-phase bridge rectifier



- Converts AC to DC
- Handles three-phase AC power
- Max. voltage rating
- Chassis mount design

#### Power MOSFETs

##### 800V, 900V Power MOSFETs



- N-channel super-junction
- High voltage handling
- High current capacity
- High power dissipation

#### SiC MOSFETs

##### 1200V, 1700V SiC MOSFETs



- High-temperature capability
- High current handling
- Low on-resistance
- Fast switching speed

#### SiC SBDs

##### 1200V SiC SBD



- High-temperature capability
- Fast switching speed
- Low forward voltage drop
- Low reverse recovery time