



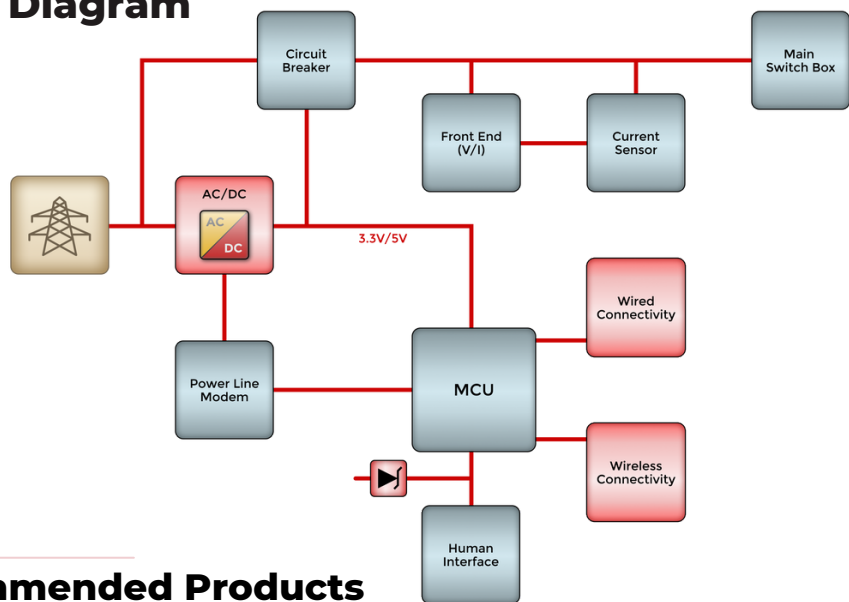
# SMART METERS

*Unlocking a Smarter,  
Greener Energy Future.*

## Real-Time Precision for Optimal Power Management.

Intelligent energy meters surpass traditional monthly readings by offering precise consumption data, down to the millisecond. These advanced meters enable consumers to have accurate, real-time monitoring of their energy usage, allowing them to make informed decisions and reduce their energy bills by taking advantage of peak and off-peak pricing. Additionally, these innovative electric meters have the capability to quickly identify electrical issues, ensuring a prompt resolution. Furthermore, they facilitate the efficient integration of home-generated renewable energy into the grid. The advent of intelligent energy meters signifies the future of energy management, and this future is already within our grasp.

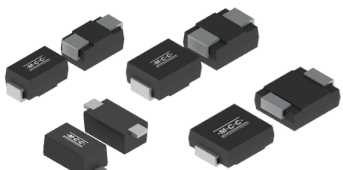
### Block Diagram



### Key Design Considerations

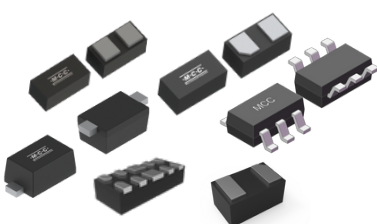
- Accuracy and precision
- Communication
- Security
- Durability
- User interface
- Power quality measurement
- Tamper detection
- Maintenance
- Energy harvesting

### Recommended Products



**AC/DC**  
**Surge Protection**  
Broad selection of reliable solutions

- [SMF12A](#)
- [SMA6J12A](#)
- [SMBJ400CA](#)
- [SMCJ400CA](#)
- [AK10-380C](#)
- [AK10-430C](#)



**Wireless Connectivity**  
**ESD Protection**  
Ultra Low Capacitance

- [ESDSL5V0LB](#)
- [CSPULC3V3AE](#)
- [ESDSL5V0AE2](#)
- [CPSL5V0AE](#)
- [ESDSL5V0D5](#)
- [ESDLC3324DFN10](#)
- [SRL05](#)