



**ASCO** Power Technologies™

# ASCO Product Overview

[ascopower.com](http://ascopower.com)

Life Is On | **Schneider** Electric



# Challenges

## Healthcare



- Comply with Codes and Regulations
- Provide Emergency Power for Patient Wellbeing
- Streamline Operations to Optimize Resources

## Data Centers



- Minimize Downtime
- Streamline Deployment
- Support Redundancy Strategies

## Telecom



- Powering Wireless and Wireline Services
- Supporting Voice and Data
- Providing Emergency Communications

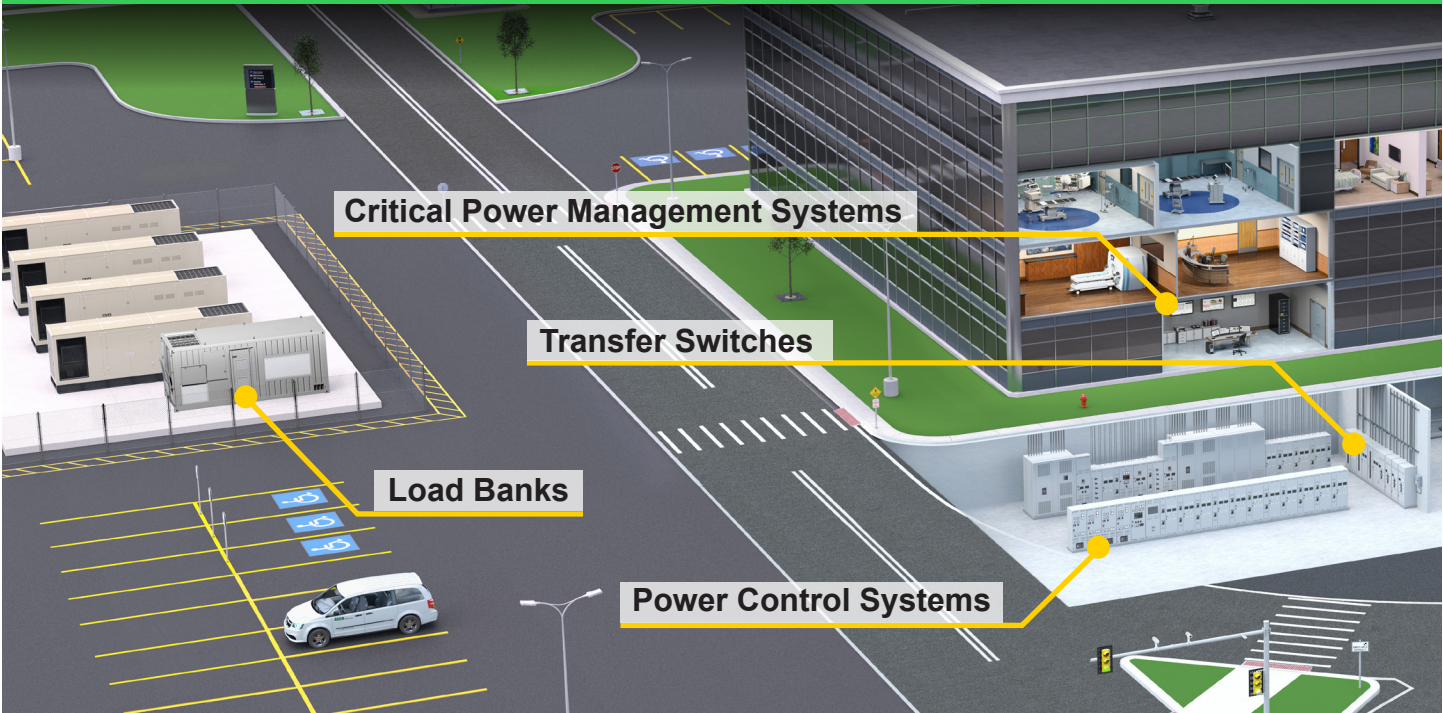
## Commercial



- Maintain Business Continuity
- Provide Occupant Safety
- Support Application Flexibility

# ASCO Solutions

## Healthcare



Critical Power Management Systems

Transfer Switches

Load Banks

Power Control Systems



### Transfer Switches

Connect load to Normal and Emergency power sources



### Critical Power Management Systems

Advanced monitor, notification, control and reporting



### Power Control Systems

Parallel generators and provide advanced control



### Load Banks

Verify power source performance and adjust circuit characteristics



# ASCO Solutions

## Critical Power Equipment for a Wide Range of Applications

Data Center

Maximum Uptime

Transfer Switches and Power Control Switchgear

Load Bank

Telecom

Public Safety & Consumer Satisfaction

Automatic Transfer Switch

Water Treatment Plant

Environmental Protection

Load Bank, Transfer Switches, Power Control Switchgear, and CPMS

Commercial Building

Business Continuity

Load Banks

Critical Power Management Systems

Transfer Switches and Power Control Switchgear

Residential Facilities

Occupant Safety & Comfort

Manual Transfer Switch with Integrated Quick Connects

Small Business/Critical Operations

Public Service

Transfer Switch



# Transfer Switches



ASCO Power Technologies patented the first commercial automatic transfer switch in 1933, and has led the industry ever since. We design, manufacture, and support transfer switch designs for every application.

## Solutions

- Load switching between two power sources
- Automatic and Manual transfer switches
- Solutions for transferring motor loads
- Removable transfer switch mechanism for ease of service
- Transfers without power interruption
- Bypass switching for concurrent maintainability
- A portal for IP-based monitoring, notification, and control
- Available with integrated or stand-alone quick-connect panels

“ASCO really came through with a value-engineered design that fit the room layout and saved us installation time.” Matt M., Electrical Contractor

## Key Attributes

- Automatic Transfer Switches for unattended operation
- Manual and Electrically operated models
- Solenoid-operated contactors for fast reliable transfer
- Open, Delayed, and Closed Transition Modes
- Available bypass-isolation configurations for enhanced maintainability
- UL Listed and IEC compliant designs
- Indoor and outdoor enclosures
- Service Entrance models save space and streamline installation
- Custom engineering available for any application
- Low voltage & medium voltage models up to 4000 Amps

# Power Control Systems



From two-generator prime power to redundant 22-generator mission-critical facilities, ASCO Power Control Systems manage and optimize multiple power sources and downstream loads.

## Solutions

- Increase capacity by paralleling multiple power sources
- Increase availability by managing redundant equipment
- Scalability to expand existing systems or provide future capacity
- Flexibility to switch between utility, backup generators, and alternate energy sources
- Increase efficiency by optimizing use of generation capacity and power distribution
- Increase maintainability by powering priority loads during power source service
- Increase visibility into power systems through monitoring and simulation

“We’ve always received great support from ASCO... I will continue to use you and anyone you partner with on my projects.” John T., Consulting Engineer

## Key Attributes

- Parallel up to 32 power sources
- Distribution Sections for Sophisticated Load Management
- Master Controls Sections for Sophisticated System Control Sequences
- Configurations for Emergency Standby Power, Paralleling with Utility and Generator, and Prime Power applications
- Wide range of available bus configurations to enhance performance and availability
- Standard Bus Optimization gets more loads online
- Standard Load Demand functions operates fewer generators at greater efficiency
- Available Simulation for planning, training, and forensic evaluation
- Custom Operating Sequences provide the most sophisticated control in the industry
- Available redundant PLCs for maximum redundancy

# Load Banks



Load Banks place loads on power sources by dissipating electrical power as heat. They verify power source performance, adjust power factors in circuits and help verify regulatory compliance.

## Solutions

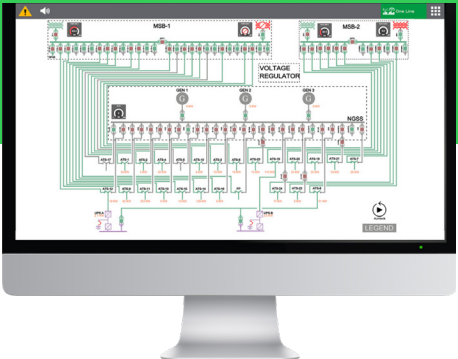
- A means to test generator output
- Power factor correction for circuits, facilities, and utilities
- Heat generation for commissioning and testing HVAC systems
- Ability to maintain a minimum load on a power source
- A tool for avoiding “wet-stacking” in diesel-powered gensets
- A means for testing UPS and battery performance

*“We prefer ASCO because of the product quality and customer support from the ASCO sales team .... GREAT TEAMWORK!” Joe T., Generator Dealer*

## Key Attributes

- Resistive Load Banks for testing at unity power factors
- Resistive/Reactive Load Banks for testing generators at full power
- Inductive and Capacitive Load Banks for power factor adjustment and special applications
- Portable, permanent, containerized and trailer-mounted models
- Range of advanced control options including hand-held remote controllers and IP-enabled communications
- Low Voltage AC models to 6000 kW
- Medium Voltage AC models to 7000 kW
- DC models to 3500 Amps

# Critical Power Management Systems



Critical Power Management Systems offer scalable, unified communication and power management tools for facilities of every size. Interactive tools apply power expertise to a single device or to systems worldwide with the touch of a button or a swipe of a screen.

## Solutions

- Remote power system monitoring
- Real-time notices for power events and conditions
- Visualization on custom one-line diagrams
- Communication via purpose-built networks or existing IT infrastructure
- Power source, distribution, and metering data in a single view.
- Time-stamped logs of equipment events and conditions
- Visual power event simulation and replay
- Detailed event logs for forensic evaluation

*“...excellent recommendation and solution to the problem.” Todd M., Electrical Engineer*

## Key Attributes

- Server-based monitoring and control platforms
- Sophisticated Critical Power System Appliances
- Intelligent web-enabled multi device annunciators
- Advanced Metering and Data Logging
- Communications modules for networking across disparate signal and data protocols
- Outputs to common Building Management Systems



# Services

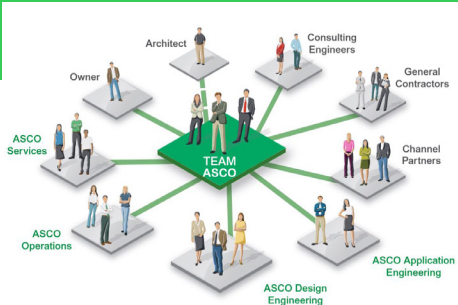


ASCO Power Services employs factory-trained technicians throughout the world. Quick response, thorough assessment, and quality maintenance are the hallmarks of ASCO service.

- Startup and commissioning
- Operator training
- Preventive inspection and maintenance
- Warranty service
- Retrofits and upgrades
- Factory replacement parts for quick shipment anywhere
- Load testing & infrared scanning
- More than 150 factory-trained, factory-employed technicians provide routine and emergency service worldwide.

“ASCO stepped up to the plate when no one else would.” Jeff B., Engineer

# Project Management



ASCO Project Managers perform these functions to make sure complex customer projects are successful.

- Develop and maintain project schedule.
- Manage project to meet established milestones.
- Process any project requirement changes.
- Conduct kickoff, status, and review meetings.
- Maintain project punch list to ensure completion.
- Serve as expert technician resource
- Coordinate on-site support during startup and commission
- Ensure drawings and documents are completed accurately and on time.

“The close communication and intimate knowledge from all perspectives was invaluable.” Scott K., Electrical Distributor

# Technical Support



ASCO experts provide the most comprehensive support in the business. Representatives are available in our customer service center 24 hours per day, 365 days per year.

- Sales force of technical experts
- Customer center for technical and emergency support
- On-line reference documents, including equipment drawings and sample specifications

“My preference is ASCO because of the response time and technical support I get from ASCO’s team.” Susan F., Electrical Distributor

We are here to help.  
1-800-800-ASCO • [customercare@ascopower.com](mailto:customercare@ascopower.com)



**ASCO Power Technologies**  
*A Century of Critical Power Experience*



ASCO Power Technologies - Global Headquarters  
160 Park Avenue  
Florham Park, NJ 07932  
Tel: 800 800 ASCO

[www.ascopower.com](http://www.ascopower.com)  
[customercare@ascopower.com](mailto:customercare@ascopower.com)