

Products and solutions for the construction market

Power distribution

Substations

- 5–27.6 kV primary unit substations
- Secondary unit substations
- Low-voltage substations



Medium-voltage switchgear

Air-insulated:

- Metal-clad 5 kV- 38 kV
- Metal-enclosed, load-interrupter 5 kV-15 kV
- Improve operator safety with arc-resistant, Sm@rtGear, remote-racking, SIERS, and/or OMARS options as available per product type



Gas-insulated:

- Metal-enclosed, arc-resistant, compact, single or double bus 5 kV-38 kV
- Metal-enclosed, load-interrupter, arc-resistant, compact, modular construction 38 kV

Medium-voltage transformers

- Cast-coil
- Liquid-filled
- Unit substations
- Vacuum Pressure Encapsulated (VPE)
- Vacuum Pressure Impregnated (VPI)



Medium-voltage components

Full line of OEM components and accessories for GM-SG and GM38-3AH3 medium-voltage circuit breakers, including circuit breaker cell kits and skeletons



Medium-voltage, vacuum, roll-in, replacement circuit breakers

- 5 kV to 38 kV
- Direct interchangeability
- Pre-engineered designs for most brands and models



Ruselectric

- Paralleling switchgear/power control systems
 - Low-voltage and medium-voltage systems
 - Emergency power systems
 - Utility paralleling systems
 - Prime power systems
 - Cogeneration systems
- Low-voltage and medium-voltage transfer and bypass switches
- Advanced microgrid controls



Low-voltage switchgear

- Rear-connected, low-voltage switchgear
- Front-connected, low-voltage switchgear
- Optional arc resistant construction
- Optional Sm@rtGear system
- Optional 4-pole WL circuit breakers
- Arc flash hazard mitigation solutions



Low-voltage circuit breaker retrofit solutions

- Direct-rack design allows breaker to rack directly to original primary bus
- Modular accessories including communication, measurement, and enhanced protection functions
- Pre-engineered designs available for most brands and models



Switchboards

- Distribution switchboards
- Integrated power systems switchboards
- Commercial multi-metering switchboards
- Generator-ready switchboards
- Rear-connected switchboards



Panelboards

- Lighting panels
- Lighting control panels
- Power panels
- Column-type panels
- Coordination panels
- Telephone and equipment cabinets



Motor control centers / controllers

- Low-voltage motor control centers
- Medium-voltage motor controllers including solid-state reduced-voltage starters and reduced-voltage autotransformers
- Improve operator safety with arc-resistant, Sm@rtGear and/or SIERS options as available per product type



Siemens Construction Products

Low-voltage, dry-type transformers

- Buck-boost
- General purpose
- Motor drive isolation
- Harmonic mitigating
- Power centers
- Super energy efficient NEMA premium
- Meets DOE 2016 efficiency requirements



Busway / bus duct

- Non-segregated bus duct up to 15 kV
- Sentron busway
- XL-U busway
- Power II Fit program
- Power II Measure service



Circuit breakers

- Molded-case circuit breakers
- Insulated-case circuit breakers
- Residential circuit breakers
- IEC miniature circuit breakers



Safety switches

- General duty
- Heavy duty
- Double throw
- Rotary switches
- AC disconnects



Surge protection

- Commercial 50 kA – 1,000 kA
- Residential 35 kA – 140 kA
- Telcom and coax



NEMA and general purpose control

- Starters and overload relays
- Duplex controllers
- Pump control panels
- Reduced-voltage control
- Lighting contactors
- Control power transformers
- Manual control starters and switches



Packaged solutions

- Simplify your procurement process and save project management time and money with Siemens' packaged solutions.
- Siemens' experienced project managers can help:
 - o Execute your project from award through completion.
 - o Coordinate your power equipment center (PEC) components:
 - An array of low- and/or medium-voltage power distribution equipment like switchgear, motor controllers and control centers, and variable-frequency drives.
 - Auxiliary equipment like HVAC and pressurization systems, UPS and battery systems, fire detection/suppression, DCS and controls, indoor and outdoor lighting, insulation, and work spaces.
 - o Arrange for coordination studies, factory-authorized testing, commissioning, field services, and maintenance and repair.



Residential

Residential products

- Load centers
- Generator ready load centers
- Meter combinations
- Meter sockets
- Multi-family metering
- Residential circuit breakers
- Temporary power panels



Energy automation and smart grid

Energy Automation

- EMP
- SDFA
- Digital Substation
- Protection Relays
- PMS/Power SCADA
- SIPROTEC 5
- Data Concentrator



Grid control

- SpectrumPower upgrade
- Microgrids
- ADMS
- DERMS
- EMS
- Grid consulting for Developers
- PSS E
- PSS CAPE
- PSS SINICAL



Software and consulting

- Integrated resource planning
- Energy-efficiency analytics
- MDM-SaaS
- Computer-aided protection simulation
- Digital Twin
- Simulation software for analysis
- Transmission planning and analysis
- SCUC



Digital power and thermal monitoring

- Power and power quality meters
- Digital energy management software
- Energy management engineering services
- SEM3™ embedded micro metering module
- SEM3™ Thermal monitoring in electrical apparatus
- Branch circuit monitoring



Solar and e-vehicle

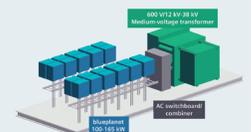
Solar photovoltaic (PV) disconnects and meter combinations

- 600 V dc solar PV disconnects (30 – 200 A)
- Fully equipped solar meter combinations



Solar inverters

- Commercial on-site solar central and string inverters
- Solar photovoltaic skid solutions



Siemens Construction Products

Electric-vehicle charging solutions

- Level 2 AC residential and commercial charging stations - wall or post mounted
- DC fast-charging solutions for all vehicle types
- Commercial fleet/eBus charging solutions - light to heavy-duty vehicles
- Make-ready solutions
- Managed cloud service solutions with billing and load management



Electrical services and solutions

- Installation, start-up and commissioning
- Custom turnkey solutions
- Power system engineering services
- Arc flash hazard analysis and mitigation solutions
- Repair, maintenance and testing services
- Modernization and upgrade solutions, retrofit and replacements



Building information modeling (BIM)

- Unit substations
- Low-voltage switchgear
- Switchboards
- Dry-type distribution transformers
- Panelboards
- Busway
- Safety switches



Learn more

Medium-voltage power distribution

usa.siemens.com/medium-voltage

Low-voltage power distribution

usa.siemens.com/powerdistribution

Electric-vehicle charging solutions

usa.siemens.com/emobility

Solar inverters

usa.siemens.com/solarphotovoltaics

Medium-voltage vacuum roll-in replacement circuit breakers

usa.siemens.com/mvreplacements

Low-voltage replacement circuit breakers

usa.siemens.com/lvretrofit

Electrical Services

usa.siemens.com/electricalservices

Digital Power and Thermal Monitoring

<https://new.siemens.com/us/en/products/energy/low-voltage/digital-power-monitoring.html>

Resources for the Consulting Engineer

<https://new.siemens.com/us/en/products/energy/low-voltage/consulting-engineers.html>

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