

POWER GENERATION

VALID FOR NORTH AMERICA



Europe / Middle East / Africa / Latin America

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CONFIDENCE ALWAYS READY.

In today's world, any loss of power is critical. Even a moment's gap in power delivery can lead to loss of data, productivity, or even loss of life. The standard is high. Power must be available at all times. Power generating systems from MTU Onsite Energy provide this kind of performance. In standby use, our systems keep power flowing seamlessly if there is a utility failure. When used for prime power, MTU Onsite Energy systems are scalable to fit a wide range of applications. MTU Onsite Energy power generation systems deliver the refined power required by sensitive computer networks, while accommodating the high transient loads of air conditioners, compressors and other vital equipment. Applications and locations vary, but the need for reliable power is constant. MTU Onsite Energy power generating systems meet these needs every moment of every day.

Generator Sets and Accessories

- // Diesel-powered 30 kW to 3,250 kW
- // Gas-powered 30 kW to 400 kW
- // Transfer switches 30 amps to 4,000 amps
- // Paralleling switchgear to control the complete power generation system
- // Digital controllers to monitor the generator set

Features and Benefits

- // Cutting-edge emissions technology
- // Advanced monitoring and communications technology
- // Digital and analog controllers
- // Digital engine and generator controls for superior performance and rapid response time
- // Proven reliability and durability
- // Low maintenance costs
- // Full scope of accessories, including fuel tanks, mobile units and enclosures
- // Single-source supply of all power generation needs
- // UL2200 listing available on most models

OVER 50 YEARS OF RELIABLE GENERATOR
MANUFACTURING EXPERIENCE.



ENGINEERING INTEGRATED SUPPORT.



Every MTU Onsite Energy power generation unit is completely engineered before it reaches the factory floor. Computer-aided design ensures compatibility and consistency before the manufacturing process even begins.

Total System Testing

Complete MTU Onsite Energy systems are available from a single source. What's more, they are production-tested as integrated systems, ensuring reliable operation. The entire engine generator set system is covered by the MTU Onsite Energy comprehensive warranty.

Prototype Testing

- // One-step full load and transient response
- // Motor starting capability
- // Three-phase symmetrical short circuit
- // Generator set cooling and airflow
- // Production testing
- // One-step full load pickup performance specifications verification
- // Voltage and frequency regulation and stability
- // Voltage, current, power and frequency power output ratings verification
- // Controller logic, pre-alarm warnings and shutdown functions

After Market Support

Our commitment to quality extends well beyond the sale. Standard and extended warranties can be customized for specific applications. Warranty coverage includes:

- // Engine
- // Alternator
- // Controller
- // Transfer switch
- // Switchgear
- // Genuine MTU Onsite Energy system accessories

Factory-trained experts are available 24 hours a day, 7 days a week.

DELIVERING PERFORMANCE AT STATED SPECIFICATIONS,
EVEN IN THE HARSHTEST CONDITIONS.



DIESEL POWER

30 KW TO 3,250 KW DIESEL GENERATOR SETS.

VERSATILE SYSTEMS, DEPENDABLE POWER.

Power generation systems from MTU Onsite Energy are ideal for standby and prime power applications. They feature a variety of cooling and exhaust system options, as well as a complete line of accessories. MTU Onsite Energy 30 to 3,250 kW units optimize fuel economy and comply with EPA emissions standards. MTU Onsite Energy industrial-grade diesel engines are designed for confidence and built to last.

- // Electronically controlled four-cycle engines
- // Compliant with EPA emissions standards
- // Low and medium voltages available to 13.8 kW
- // Permanent magnet excitation
- // Cooling options include unit-mounted radiators, remote radiator setup and city water cooling
- // 50 Hz and 60 Hz operation
- // UL2200 listing available on most models

Typical Applications

- // Government and municipalities
- // Hospitals and health care
- // Data centers
- // Sewage and water treatment
- // Manufacturing
- // Communications and cell towers
- // Commercial buildings and industrial buildings
- // Hotels and casinos
- // Educational institutions
- // Fire and ambulance stations
- // Emergency response units
- // Correctional facilities
- // Utilities
- // Agricultural
- // Mining
- // Oil fields
- // Residential



GAS POWER

30 KW TO 400 KW GAS GENERATOR SETS.

QUALITY, DEPENDABLE POWER AT A MOMENT'S NOTICE.

Gas-fueled power generation systems from MTU Onsite Energy provide the same reliable power as our diesel systems. Gas systems, however, offer a fuel option that can reduce the costs and complexity of installation and maintenance.

Our gas-fueled systems work well as prime power, but are ideally suited for many standby applications. By using existing natural gas or LP gas supplies, these systems eliminate the need for on-site storage of liquid fuels. Agencies overseeing fuel storage have long lists of requirements for storage sites, which may include:

- // Fire suppression equipment
- // Double-walled tanks with interstitial monitoring
- // Bermed storage pads
- // Enhanced security measures

In addition, LP and natural gasses burn cleanly, which extends engine life and reduces maintenance costs. Because there is no liquid fuel, there is no risk of fungal fuel growth.

Typical Applications

- // Entertainment centers
- // Institutional facilities
- // Office buildings
- // Processing stores
- // Retail stores
- // Schools
- // Telecommunications



TRANSFER SWITCHES

POWER TRANSFER AND CONTROL.



We've worked hard to make MTU Onsite Energy power generation systems best in class. Having the ultimate means nothing, however, if you can't access the power when it's needed.

Leader in Power Transfer Switches

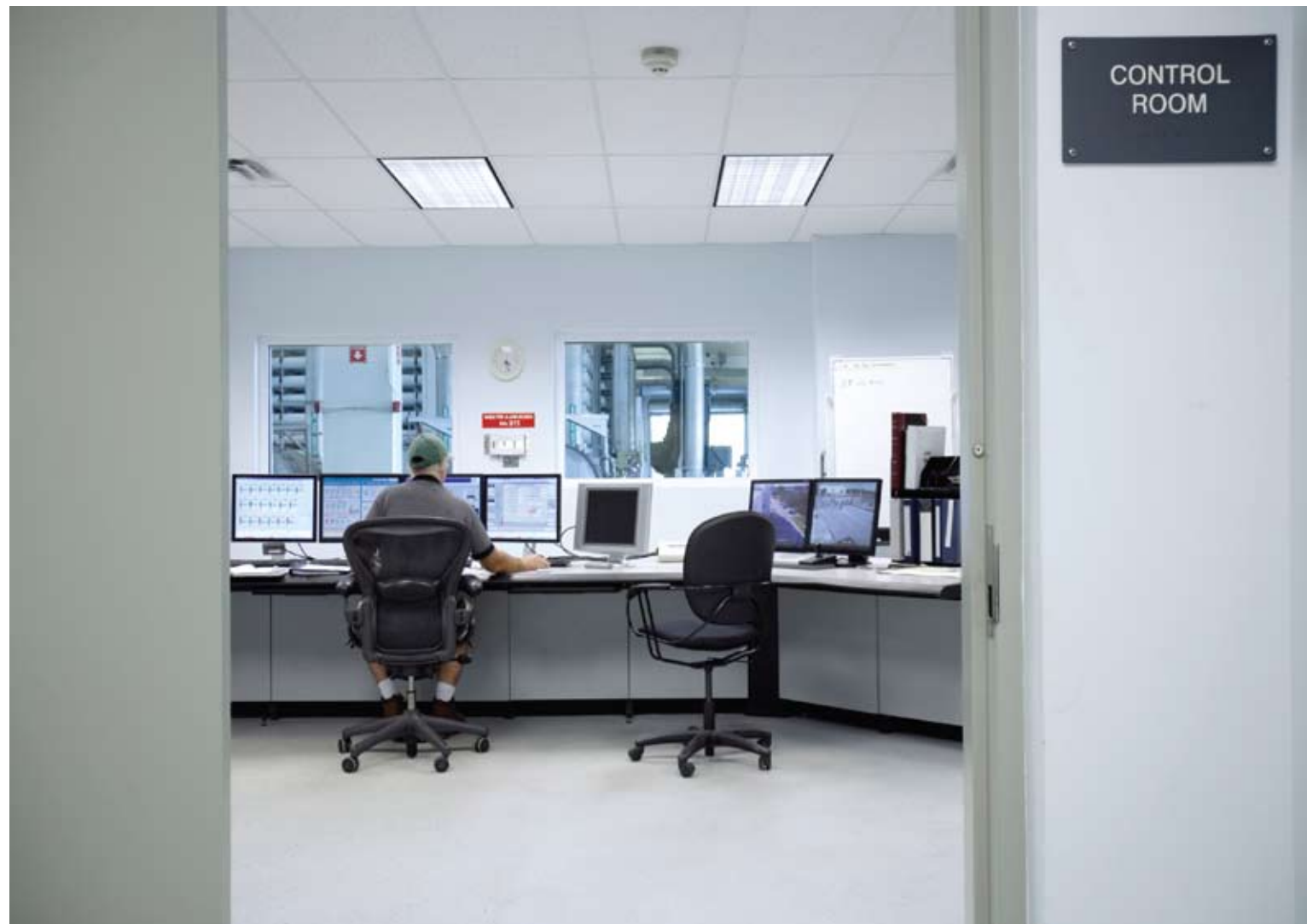
MTU Onsite Energy provides the solutions to transfer critical loads to emergency sources reliably and with state-of-the-art products. When flexibility in power switching is a must, MTU Onsite Energy offers a variety of solutions to meet virtually every application requirement. Switches are available in open, delayed and closed-transition configurations. The neutral connection could be solid, switched or overlapped. High-speed transfer of loads between alternate power sources, regardless of amperage, is achieved by a reliable, field-proven solenoid. In most sizes, replaceable main and arcing contacts are accessible from the front. Serial, Modbus and Ethernet communications allow remote monitoring and control.

Other Specifications:

- // Available ampere ratings: 30 to 4,000
- // Low voltage: 115 to 600
- // Medium voltage: 5 kW and 15 kW
- // Listings: UL1008 (Standard for Transfer Switching Equipment) and CSA 22.2 No. 178-1978 Automatic Transfer Switches

Network Your Emergency Power System

You can monitor and control power-transfer switches in your emergency or standby distribution systems with MTU Onsite Energy communications products. Local area networks and remote networks are supported with either single or multiple points of access. Web-enabled communications allow access to your power system from anywhere in the world.



ULTIMATE PROTECTION FOR CRITICAL LOADS.

PARALLELING SWITCHGEAR YOU'RE IN TOTAL COMMAND.

COMPLETE CONTROL AT THE TOUCH OF A BUTTON.

MTU Onsite Energy power generation systems are sophisticated machines, and it takes sophisticated electronic controls to run them properly. That's why using MTU Onsite Energy digital generator paralleling control switchgear makes a winning combination: control from easy-to-operate screens at the system or monitor remotely from a control center anywhere in the world.

Load management is automatic. The controllers start, synchronize, parallel, monitor and protect the engine and alternator. Fault codes are stored and shutdown sequences are invoked if out-of-range conditions warrant.

MTU Onsite Energy controllers will manage up to eight gensets. Each genset will have one priority block with up to eight loads per block. Controllers work with voltages up to 13.8 kV.

Digital Control Provides Reliability, Flexibility

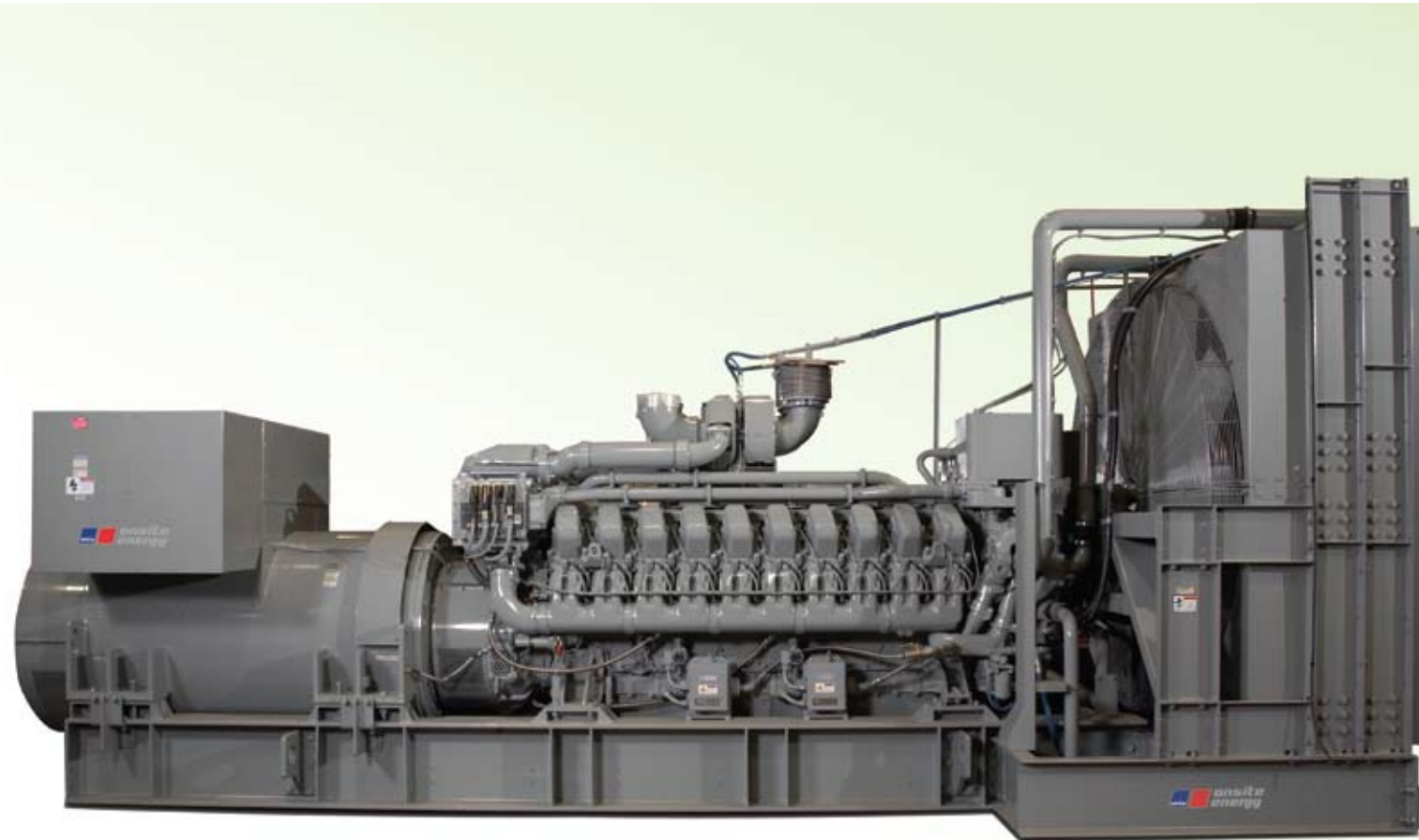
MTU Onsite Energy digital controllers constantly monitor loads and make adjustments as needed. Primary and secondary priority loads are added or shed through up to 64 automatic transfer switches. The controller communicates through an Ethernet connection with a range of building networks using most major media and protocols.

When the automatic transfer switches signal that commercial power has been restored and the transfer switches have retransferred loads to the normal source, the switchgear simultaneously opens the generator circuit breakers. The engines then run for a no-load, user-defined cool-down period.

Configuring the controllers can be done at the unit; no laptop is required. The control panel also displays event logs and other operating information.

Compact Package

Despite the full-featured design of MTU Onsite Energy controllers, the units are compact, have a small footprint and meet UL Standards.



SUPPORT CUSTOM POWER.

SERVICE WHEN YOU NEED US - 24/7.

MTU Onsite Energy offers a full line of accessories that meet the highest standards for quality and safety. From hospitals and construction sites to telecommunications and remote sites around the world, we can customize a power system to fit your application using a wide selection of accessories and components, including:

- // Sound enclosures
- // Weather housings
- // Sub-base diesel fuel tanks
- // Day tank systems
- // Generator set controls
- // System monitoring and control
- // Float/equalizing battery chargers
- // Remote annunciators
- // Silencers
- // Circuit breakers

MTU Onsite Energy distributors and dealers are ready to serve all your power needs. Your local distributor is factory-trained to service your power generation systems for as long as you own them. Other services available include:

- // Sizing and installation software
- // Operation engineers guidebook
- // Electronic engineering drawings

For more information, contact your local MTU Onsite Energy distributor.

