STANDARD EQUIPMENT
- Operator Interface T
- Touchscreen
- 0.25% Accuracy AC Metering for Generator: Voltage, Average Voltage; Power Factor; kW
- Engine/Generator Control
- PowerLynx Technology Communications
- PowerLynx Technology Operator Interface Unit
- PowerLynx Technology System Control
- PowerLynx Technology Generator Metering
- PowerLynx Technology Generator Protective Relays
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Operator Interface
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protective System
- PowerLynx Technology Generator Protec
Caterpillar switchgear with PowerLynx technology has been designed to integrate harmoniously with Caterpillar on-package microprocessor-based engine control. Exclusively from Caterpillar, you can now get one-of-a-kind performance, reliability and dependability all in one package, something no other manufacturer can provide.

PowerLynx Technology Features

Fault Tolerance

PowerLynx Technology provides maximum efficiency and reliability. With other switchgear, if a single component shuts down, the entire system may not operate. With PowerLynx, this won't happen because four levels of fault management peak shaving.

Features

- True distributed control for each power source ensures the system continues to operate even if a single PLC fails.
- In the event that the main automation feature fails, PowerLynx Technology enables fail-safe manual control for the operator. A redundant man interface is optionally available.
- If the touchscreen fails, an "In Standby Auto" switch is provided to place all PowerLynx controls in the Auto position, protecting your facility from power outages.
- Distributed manual control in case the automation feature fails.

Touchscreen Interface

The PowerLynx technology is an advanced, multitiered microprocessor-based engine-generator set control found exclusively in Caterpillar switchgear.

Advanced Communications Capabilities

PowerLynx technology is equipped with exceptional remote communications technologies, enabling you to control and monitor your engine-generator sets from anywhere in the world. From home, the office or on the road, you can access controls and information on a real-time basis and respond immediately... even control multiple facilities from a single centralized site.

Advanced Generator Protection

PowerLynx technology performs generator protective functions in a manner that is familiar to you. Graphics look exactly like the meters and gauges on conventional switchgear. The easy-to-use touchscreen interface makes it easy to follow graphical monitoring Perform generator protective functions, compare, display and transmit data with a high degree of reliability and functionality.

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

PowerLynx Digital Technology

PowerLynx digital technology includes advanced communications and control capabilities, as well as an improved touchscreen interface. PowerLynx switchgear products do not require additional discrete components.

PowerLynx Technology

Caterpillar has developed a microprocessor-based engine control process called PowerLynx Technology. This unique technology is built into the system to allow for the following:

- True distributed control processors for each power source ensure the system continues to operate even if a single PLC fails.
- In the event that the main automation feature fails, PowerLynx Technology enables fail-safe manual control for the operator. A redundant man interface is optionally available.
- If the touchscreen fails, an "In Standby Auto" switch is provided to place all PowerLynx controls in the Auto position, protecting your facility from power outages.
- Distributed manual control in case the automation feature fails.

Touchscreen Interface

The PowerLynx technology is an advanced, multitiered microprocessor-based engine-generator set control found exclusively in Caterpillar switchgear.

Advanced Communications Capabilities

PowerLynx technology is equipped with exceptional remote communications technologies, enabling you to control and monitor your engine-generator sets from anywhere in the world. From home, the office or on the road, you can access controls and information on a real-time basis and respond immediately... even control multiple facilities from a single centralized site.

Advanced Generator Protection

PowerLynx technology performs generator protective functions in a manner that is familiar to you. Graphics look exactly like the meters and gauges on conventional switchgear. The easy-to-use touchscreen interface makes it easy to follow graphical monitoring Perform generator protective functions, compare, display and transmit data with a high degree of reliability and functionality.

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

Integrated Digital Technology

Integrated with an on-package engine control, PowerLynx has built-in governor, synchro, power factor controller and load sharing functions. Caterpillar switchgear products do not require additional discrete components.

Product Description

Local Management LMI Switchgear with PowerLynx® utilizes a single diesel or natural gas generator set to operate in parallel with the utility company for load management peak shaving.

- Standardized, simple, cost effective controls switchgear for local or remote load sharing, stopping, synchronizing, utility paralleling, load management, and distributed generation.

- Available:
  - Base loading export
  - Base loading import peak shaving

PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presentations, the PowerLynx technology product merges the features of:

- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

Integrated Digital Technology

Integrated with an on-package engine control, PowerLynx has built-in governor, synchro, power factor controller and load sharing functions. Caterpillar switchgear products do not require additional discrete components.

Product Description

Local Management LMI Switchgear with PowerLynx® utilizes a single diesel or natural gas generator set to operate in parallel with the utility company for load management peak shaving.

- Standardized, simple, cost effective controls switchgear for local or remote load sharing, stopping, synchronizing, utility paralleling, load management, and distributed generation.

- Available:
  - Base loading export
  - Base loading import peak shaving

PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presentations, the PowerLynx technology product merges the features of:

- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

Integrated Digital Technology

Integrated with an on-package engine control, PowerLynx has built-in governor, synchro, power factor controller and load sharing functions. Caterpillar switchgear products do not require additional discrete components.

Product Description

Local Management LMI Switchgear with PowerLynx® utilizes a single diesel or natural gas generator set to operate in parallel with the utility company for load management peak shaving.

- Standardized, simple, cost effective controls switchgear for local or remote load sharing, stopping, synchronizing, utility paralleling, load management, and distributed generation.

- Available:
  - Base loading export
  - Base loading import peak shaving

PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presentations, the PowerLynx technology product merges the features of:

- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

Integrated Digital Technology

Integrated with an on-package engine control, PowerLynx has built-in governor, synchro, power factor controller and load sharing functions. Caterpillar switchgear products do not require additional discrete components.

Product Description

Local Management LMI Switchgear with PowerLynx® utilizes a single diesel or natural gas generator set to operate in parallel with the utility company for load management peak shaving.

- Standardized, simple, cost effective controls switchgear for local or remote load sharing, stopping, synchronizing, utility paralleling, load management, and distributed generation.

- Available:
  - Base loading export
  - Base loading import peak shaving

PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presentations, the PowerLynx technology product merges the features of:

- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

Integrated Digital Technology

Integrated with an on-package engine control, PowerLynx has built-in governor, synchro, power factor controller and load sharing functions. Caterpillar switchgear products do not require additional discrete components.

Product Description

Local Management LMI Switchgear with PowerLynx® utilizes a single diesel or natural gas generator set to operate in parallel with the utility company for load management peak shaving.

- Standardized, simple, cost effective controls switchgear for local or remote load sharing, stopping, synchronizing, utility paralleling, load management, and distributed generation.

- Available:
  - Base loading export
  - Base loading import peak shaving

PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presentations, the PowerLynx technology product merges the features of:

- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications

Caterpillar power systems protect your power every second of every day, and technicians at hospitals, power plants, and industrial facilities for performance under any condition.

High-Speed Integrated Control System

PowerLynx technology uses a high-speed industrial hardened network for system control. The network is a silver plenum connected, ensuring that the loss of one or more processors will not affect the integrity of the network. The network ensures the instant availability of power system performance under any condition.

Best-in-Class Footprint

PowerLynx technology uses fewer components than the conventional switchgear. This translates to less stringing, a smaller footprint, higher mean time between failures and lower mean time to repair.

Integrated Digital Technology

Integrated with an on-package engine control, PowerLynx has built-in governor, synchro, power factor controller and load sharing functions. Caterpillar switchgear products do not require additional discrete components.
You choose the feature set that is right for your application. 

is equipped with features and capabilities suitable for your electrical system’s needs. All products are available in three PowerLynx technology versions. Each product family is built on reliable technology...

With other switchgear, if a single

maximum efficiency and reliability. 

PowerLynx Technology is an advanced, multifunctional microprocessor-based engine-generator set control found exclusively in Caterpillar switchgear.

Touchscreen Interface

The PowerLynx touch screen gives the operator an instantaneously, easily understand-

able view of the entire system. This feature is unique to Cat-

erpillar and not found in conventional, hardware-based switchgear. To access system controls, all you need to do is touch the corresponding portion of the screen and a voice-off notice will immediately appear. The entire engine generator set can be controlled from one touchscreen.

The way to use touchscreen interfaces makes it possible to view, monitor and perform multiple functions including:

- Making
- Engine gauging
- Protective relay settings
- Annunciators
- Load limit control and generator demand priority
- Sequence and partial parallel
- Separate control inputs
- Voltage and frequency adjustments

Display

With PowerLynx technology, it’s

all the critical information you need is displayed in a manner that is familiar to you. Graphics look exactly like the meters and gauges on conventional switchgear. At a glance, you can see how the system is performing and based on real-time information, you can decide what’s necessary to correct or optimize system performance.

High-Speed Integrated Control System

PowerLynx technology uses a high-

speed, industrially hardened network for system control. The network is a high-speed, bi-directional network, cushioned and monitored by an integrated processing system. This ensures the integrity of the network. The technology ensures the integrity of the network. The technology ensures the network is always in good shape.

Best-in-Class Footprint

PowerLynx technology uses fewer

processors for each power load. This continues to operate even if a single PLC fails. 

In the event that the main automation PowerLynx technology enables the most customized switchgear operation. A redundant man

Touchscreen Interface

PowerLynx® Technology Features

Fault Tolerance

PowerLynx technology provides maximum efficiency and reliability. With other switchgear, if a single component shuts down, the entire system may not operate. With PowerLynx technology, this won’t happen because four levels of fault tolerance are built into the system:

1.) True distributed control processors for each power source ensure the system continues to operate even if a single PLC fails.

2.) In the event that the main automation PowerLynx technology enables the most customized switchgear operation. A redundant man...
You choose the feature set that is right for your application. Each product family is equipped with features and capabilities suitable for your electrical system's needs. All products are available in three PowerLynx technology versions. PowerLynx technology is innovative, reliable, and cost-effective for power generation in both low and medium voltage emergency system applications. PowerLynx technology is an advanced, multifaceted microprocessor-based engine-generator set control exclusively in Caterpillar switchgear.

PowerLynx Technology Features

Fault Tolerance
PowerLynx technology provides maximum efficiency and reliability. With other switchgear, if a single component shuts down, the entire system may not operate. With PowerLynx technology, this won't happen because four levels of fault tolerance are built into the system:
1. True distributed control processors for each power source ensure the system continues to operate even if a single PFL fails.
2. In the event that the main automation feature, PowerLynx technology will activate the most minor control processor and operate. A redundant main automation feature is optionally available.
3. If the touchscreen fails, an “In-standby Auto” switch is provided to place all PowerLynx controls in the Auto position, protecting your facility from power outages.
4. Distributed manual control in case the automation feature fails.

Touchscreen Interface
The touchscreen display is the key to the system’s powerful and simple operator interface. PowerLynx technology’s touchscreen display techniques in a smaller scale microprocessor touchscreen form. The screen gives the operator an instantaneous, easily understandable view of the entire system status. This feature is unique to Caterpillar and not found in conventional, hardware-based switchgear. To access system controls, all you have to do is touch the corresponding portion of the screen and you will feel the feedback presence. The entire engine generator set can be controlled from one touchscreen.

The easy-to-use touchscreen interface makes it possible to view, monitor and perform multiple functions including:
- Monitoring
- Engine gauging
- Protective relay settings
- Annunciators
- Load shed controls and generator demand priority
- Generator control and load sharing
- Voltage and frequency adjustments

Display
- With PowerLynx technology, it is critical the information you need is displayed in a manner that is familiar to you. Graphics look exactly like the meters and gauges on conventional switchgear. At a glance, you can see exactly how the system is performing and based on real-time information, you can determine what’s necessary to correct or optimize system performance.
- Best-in-Class Footprint
PowerLynx technology uses fewer components than conventional switchgear. This translates to less wiring, higher mean time to repair and more operational time between failures and lower mean time to repair.
- Integrated Digital Technology
PowerLynx technology is equipped with exceptional remote communications technologies, enabling you to control and monitor your engine generator set from almost anywhere around the world. The system control panel is designed to be easy to follow. Most switchgear products do not require additional discrete components.

High-Speed Integrated Control System
PowerLynx technology uses a high-speed, industrial hardened network for system control. The network is a dedicated network that is fully interconnected, ensuring that the loss of one or more processors will not affect the integrity of the network. The dedicated network ensures that the system performance under any condition.

Advanced Communications Capabilities
PowerLynx technology is equipped with exceptional remote communications technologies, enabling you to control and monitor your engine generator set from almost anywhere around the world. The system control panel is designed to be easy to follow. Most switchgear products do not require additional discrete components.

Advanced Generator Protection
PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presenations, the PowerLynx technology product merges the features of:
- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications
- Critical industrial/chemical applications that rely heavily on around-the-clock, especially in the distribution system operating concern. It is crucial to keep your power every second of your engine generator sets from home, in the office or on the road, you access controls and information on a real-time basis and respond immediately... even control multiple facilities from a single centralized site.

Product Description
Local Management LM Switchgear with PowerLynx® utilizes a single diesel or natural gas power generator set in operation in parallel with the utility company for load management peak shaving.
- Standardized, simple, cost-effective control switchgear for local or remotely related starting, stopping, synchronizing, utility paralleling, load management, and distributed generation.
- Available:
  - Base loading export
  - Base capacity import peak shaving

PowerLynx technology brings the power and reliability of microprocessor technology to your generator power application. Through the use of the PowerLynx operator interface touchscreen display with easy to follow graphical presenations, the PowerLynx technology product merges the features of:
- Power Monitoring
- Switchgear Automation
- Generator Set Control
- Remote Communications

The markets most...
**The Power of PowerLynx Technology**

- System Status and Alarm Annunciation with display and audible alarm from silence button
- Password secured Settings and Adjustments for Generator and System Setups and Protection
- UL 1558 listed and labeled
- NEMA 1, dusttight freestanding construction
- IEEE 1547 compliant
- UL or CSA Listed
- Copper Bus, brazed for 100 kA
- Phase, 3-4, 100% neutral, 2/4” inch, cross copper ground bus
- Available in 600V or 480/277 V, 10 kVA
- UL Listed Power Circuit Breakers, 100 kVA, ten-stripped amperage device mounted electrically operated with long time and contemporaneous trip, local LCD annunciator and circuit breaker switch with lights
- Continuous cross bus ratings up to 2000 amps at 600 VAC
- Mechanical logic for incoming and outgoing conductors
- Top or bottom conduit entry

**OPTIONAL EQUIPMENT**

- Circuit Breaker Trip Functions
  - Short-Time, Time, Ground Fault trip and/or Ground Fault Alarm
  - Also available in 150 kA or 200 kA bus rating configurations
  - Also available in medium voltage 120/208 Volts, 60 Hz
- Quadrant six remote control discos, or manually initiated at unit
- 24/96 Frame Relay - Remote
- Main Bus Compartments
- Vertical barriers
- PowerLynx software for additional on-site monitoring and control work stations
- Building Automation Data Concentrator
- CANopen Communication, utility grade, Drawout mounted (fixed optional)
- 100 AIC stepped drawout
- Optional Communication to Building Automation Systems for general monitoring, Modbus RTU

**PowerLynx Technology Specifications**

- **Engine Protection**
  - Low Coolant Temperature Pre-Arm
  - High Coolant Temperature Pre-Arm
  - Load Oil Pressure Pre-Arm and Shutdown
  - Load Fuel Alarm
  - Low Engine Battery Alarm
  - Overtemperature Shutdown
  - Overload Shutdown

- **PowerLynx Technology Communications**
  - Automotive Network - high speed, high reliability, industrially hardened
  - Optional Remote Communications Network
  - Optional Communications to Building Automation Systems for general monitoring, Modbus RTU

- **Circuit Breakers**
  - 100% Rated EU 1000 Power Circuit Breakers available 600 - 6000 A with break step damped energy release
  - 100 kVA
  - Dualized Mounted Fixed (optional)
  - Electrically Operated
  - Auxiliary and Bell Alarm Contacts
  - Electrically operated Trip Unit with Long Time and instantaneous trip functions
  - Short Time and Ground Fault
  - Local LCD Display Annunciator

**Endurance and Easing**

- UL Listed and labeled or UL 1558 Listed and Labeled
- NEMA 1, Deadfront Freestanding Construction
- Copper Bus
- 100 kA Breaker
- 3 phase, 4-wire, 100% neutral, 2/4” inch, cross copper ground bus
- Seismic qualified to exceed the requirements of the Uniform Building Code (UBC), the California Building Code (CBC)
- Also available in UL Listed and labeled medium voltage

**Condition**

- 0 to 95% humidity non-condensing

---

**LM Switchgear with PowerLynx Technology Specifications**

- **Engine Protection**
  - Low Coolant Temperature Pre-Arm
  - High Coolant Temperature Pre-Arm
  - Load Oil Pressure Pre-Arm and Shutdown
  - Load Fuel Alarm
  - Low Engine Battery Alarm
  - Overtemperature Shutdown
  - Overload Shutdown

- **PowerLynx Technology Communications**
  - Automotive Network - high speed, high reliability, industrially hardened
  - Optional Remote Communications Network
  - Optional Communications to Building Automation Systems for general monitoring, Modbus RTU

- **Circuit Breakers**
  - 100% Rated EU 1000 Power Circuit Breakers available 600 - 6000 A with break step damped energy release
  - 100 kVA
  - Dualized Mounted Fixed (optional)
  - Electrically Operated
  - Auxiliary and Bell Alarm Contacts
  - Electrically operated Trip Unit with Long Time and instantaneous trip functions
  - Short Time and Ground Fault
  - Local LCD Display Annunciator

**Endurance and Easing**

- UL Listed and labeled or UL 1558 Listed and Labeled
- NEMA 1, Deadfront Freestanding Construction
- Copper Bus
- 100 kA Breaker
- 3 phase, 4-wire, 100% neutral, 2/4” inch, cross copper ground bus
- Seismic qualified to exceed the requirements of the Uniform Building Code (UBC), the California Building Code (CBC)
- Also available in UL Listed and labeled medium voltage

**Condition**

- 0 to 95% humidity non-condensing

---

**LM Switchgear**

- Printed in U.S.A. August 2004
- Supercedes LEH3092 (05-03)
- Eaton Publication No. 049560000E

©2004 Caterpillar
PowerLynx Technology

- PowerLynx 1000, 6" Resistive LCD
- PowerLynx 3000, 15" Surface

STANDARD EQUIPMENT
- NFPA 110 Engine/Generator
- 0.25% Accuracy AC Metering for Direct Data Communication to Cat Touchscreen for EGP3 - EGP5
- 10" Resistive Monochrome

OPTIONAL EQUIPMENT
- Extended Warranty
- Redundant Main Processor
- Historical Data Trending
- Remote Notification
- PowerLynx software for additional stations

- Off-Site Frame Relay - Remote
- Also available in 150 kA or 200 kA Top or bottom conduit entry

- Modbus or Ethernet

- Fault trip and/or Ground Fault Alarm

- Multi-function, utility grade, drawout switch
- 3 – Reverse Direction Relay, utility grade, Import Only
- 25/27 – Reverse Direction Overcurrent Relay (Import Only)
- 86 – Reverse Power Lockout Relay, Manual reset (Import Only)
- 25 – Synch Check Relay (hardware redundant protective device)
- 47 – Phase Sequence/Phase Failures Relay, utility grade

- Ultrasensitive Ground Fault Alarm
- 32 R – Reverse Import
- 31/51 – Reverse Direction
- 50 – Frequency/Angle Compensator
- 25 – Synch Check Relay (Hardware redundant protective device)

- PowerLynx Technology Communications
- Automotive Network - High-speed, high-reliability, internet hardened
- Optional Remote Communications Network
- Optional Communication to Building Automation Systems for general monitoring, Modbus RTU

- 100% Rated/Loss LEH3092 Power Circuit Breakers available 400 - 6000A with high step-ripples energy restraints
- 100% Rated
- Dualized Moulded (optional)
- Electrically Operated
- Auxiliary and Bell Alarm Contacts
- Electrics: Top Unit with Long-Time and instantaneous trip function (Short-Time and Ground Fault Controlled)

- Local LCD Display Alarm
- Emergency Stop

- Optional Communication to Building Automation Network – high speed, high reliability

- LM Switchgear with PowerLynx Technology Specifications

- PowerLynx Technology Utility Metering
  - 0.25% Accuracy
  - Average Voltage, Power Factor, kW

- PowerLynx Technology Generators
  - 0.25% Accuracy

- PowerLynx Technology Generator Protective
  - 0.25% Accuracy

- PowerLynx Technology Protective
  - 0.25% Accuracy

- PowerLynx Technology Communication
  - 0.25% Accuracy