



Provide the Safety of a Switch

Switch mechanism enables safe make and break of loads up to 200 A, 100 hp, 600 V.

Ensure Arc Flash Protection

Dead-front design prevents exposure to arc flash and live parts, simplifying NFPA 70E compliance.

Maximize Outdoor Durability

Silver-nickel contacts resist corrosion. Casing is watertight to Type 4X.

Locking Feature

Plug can be locked in the connected or disconnected position. Lockout provisions are standard on the plug and optional on the receptacle.

Quick Break Operating Mechanism

Prevents exposure to live parts, eliminating associated hazards.

- Dead-front safety shutter prevents access to live contacts.
- Plug contacts are always dead before plug can be removed from receptacle.



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CASE STUDY

Generator/Lift Station Connections in Watertown, WI

Plug into Safety and Savings

Previous success with mixer connections throughout the city's wastewater plant led the Watertown wastewater utility to also equip its portable emergency generators and remote lift stations with MELTRIC's Switch-Rated plugs and receptacles.





Making 100 A generator connections at a lift station in Watertown, WI.



During test runs the plug is locked in the connected position to prevent injury to unauthorized people who might try to remove it.

Safety Features Prevent Electrical Accidents

A power failure may make it necessary to bring portable generators to power the remote lift stations until service is restored. Previously, these stations were equipped with conventional pin and sleeve connectors. However, these devices could not be locked easily to prevent tampering or injury to children or vandals who might try to remove the plug.

Assistant Water Systems Manager, Kevin L. Freber, explains, "The generators deliver 100 amp service, and with the plugs we had before, there was no way of locking the two parts together. Any child could walk up and pull it apart." Freber also points out that MELTRIC Switch-Rated plugs and receptacles are easy to lock to prevent tampering and are also safe during and after disconnection. He states, "You have to twist it to open it, and even if someone could get it apart, they could never get at the live contacts." This is due to their dead-front construction and enclosed arc chambers.

Easily accessible contacts on the previous connectors had the potential to expose workers, or others, to live power, so switching to MELTRIC's Switch-Rated plugs and receptacles also helped the utility to simplify compliance with NFPA 70E arc flash requirements.

Quickly Connect or Disconnect Power

The ability to connect or disconnect quickly and safely makes it easier to move generators around to various lift stations for monthly test runs or during a prolonged or widespread power outage. Arc flash can be a concern when it becomes necessary to use mobile generators for emergency power, but the city's lift stations are now constructed to minimize or eliminate this risk. Freber explains, "Using MELTRIC to connect to the generator with this arrangement, we can safely switch from city to emergency power." Now it takes only minutes to connect a generator and begin pumping.

MORE GENERATOR PLUG APPLICATIONS





MELTRIC plugs and receptacles are durable in harsh environments.



MELTRIC plugs and receptacles ensure arc flash safety and simplify NFPA 70E compliance.

OTHERS

Cell Towers

Portable Plants

Carnivals/Fairs Emergency

Lighting

COST SAVING ADVANTAGE

Some MELTRIC generator receptacles can safely intermate with different voltage/ phase plug configurations. Contact MELTRIC for details.



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