Parallel Power Generation Made Easy

with the MQ Power Paralleling System

Parallel generators are preferable to a larger single generator in many applications.

Our MQ Power Paralleling System can be used to connect multiple generators together into a single power generation system to monitor the power demands of the application. When your site load changes, the system automatically adjusts by bringing additional generators online or allowing for backup protection if one unit drops out.

Applications

- Dewatering
- Oil & Gas
- Heavy-Duty Motor Starting
- Telecommunications
- Building Backup/Critical Standby
- HVAC
- Entertainment

Advantages

- Efficiency
- Fleet Flexibility
- Engine Load Optimization
- Lower Maintenance Costs
- Lower Fuel Consumption
- Increased ROI

Power you can count on.

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MQ POWER
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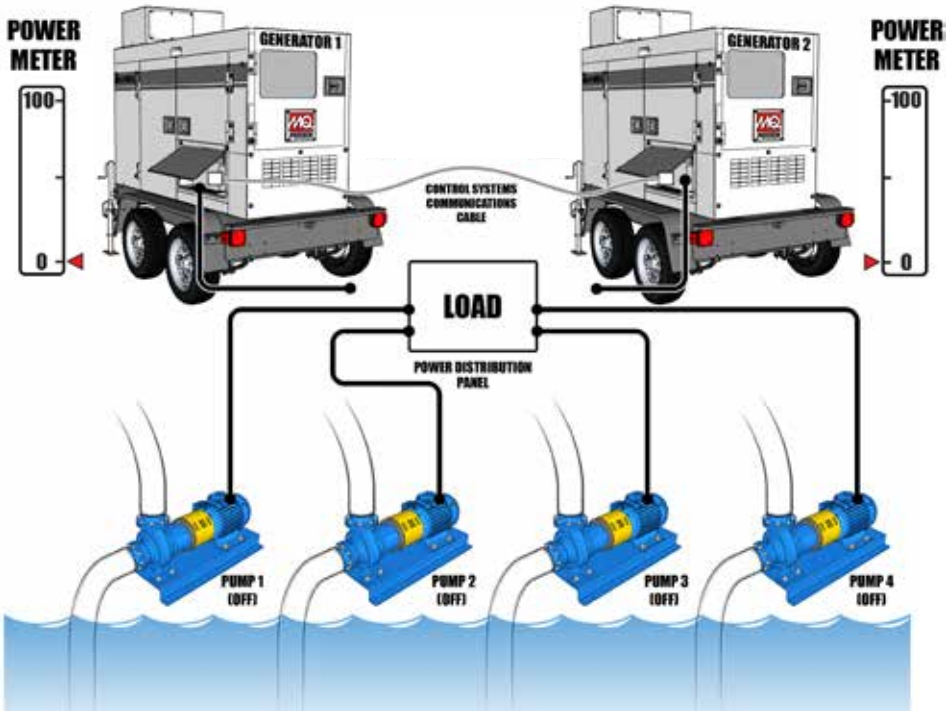
MQ Power Paralleling System

Paralleling to match variable demand

The MQ Power Paralleling System continuously monitors increasing and decreasing load requirements. It automatically starts and stops paralleled generators as required.

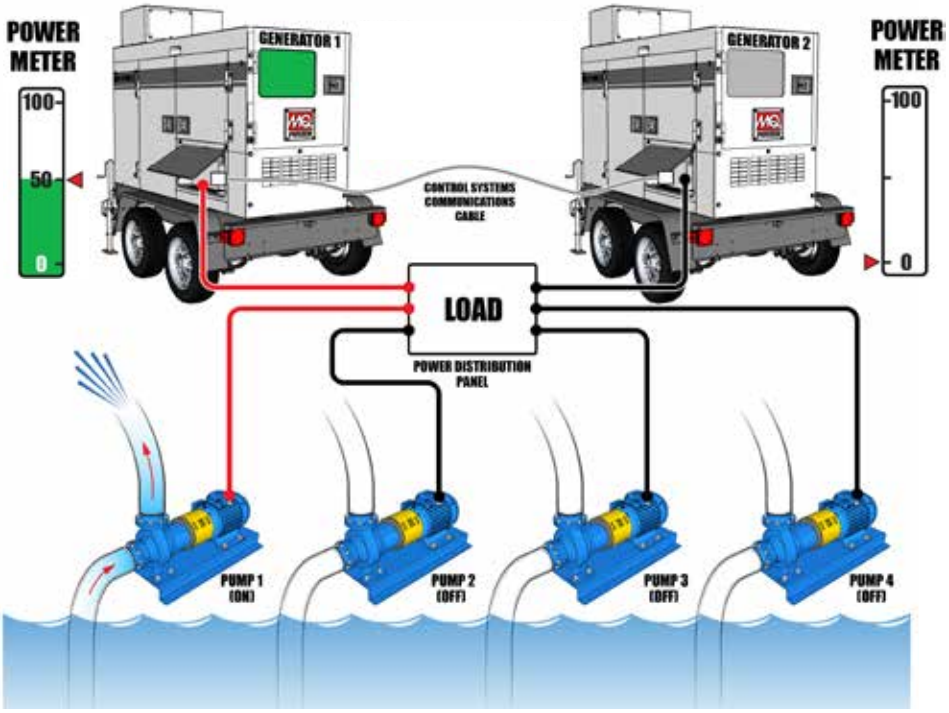
In this example, there are four pumps at a pumping station. The number of pumps in operation vary at given times, based on the amount of water that needs to be displaced. Each generator is sized to provide enough power to two pumps.



Application: *Pump 1 starts. Pumps 2, 3 and 4 are not needed and remain offline.*

Situation: *Generator 1 is more than sufficient to meet the demand.*

Response: *Only Generator 1 produces power. Generator 2 is offline and standing by.*



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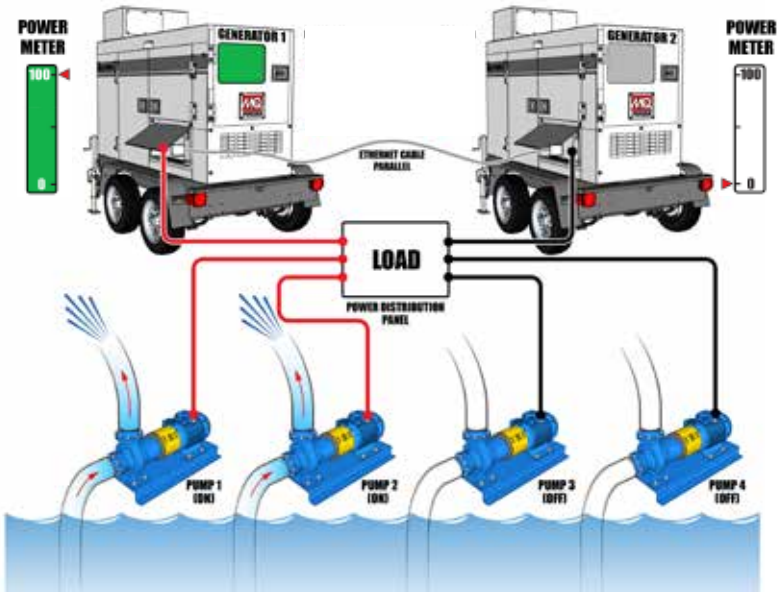
Application: *Pump 2 starts. Pumps 3 and 4 are not needed and remain offline.*

Situation: *Generator 1 is more than sufficient to meet the demand of two pumps.*

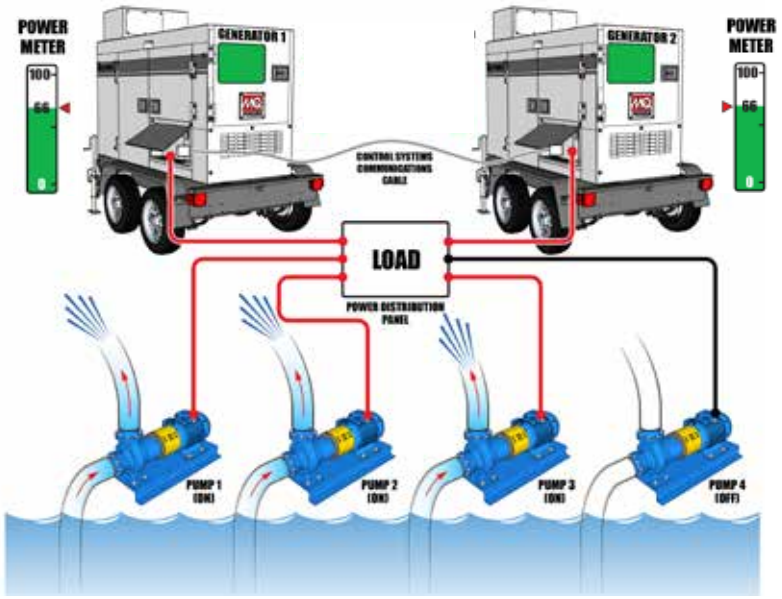
Response: *Only Generator 1 produces power. Generator 2 continues to remain offline and standing by.*



Application: *Pumps 1 and 2 are in operation. The demand increases as Pump 3 is now needed.*

Situation: *The demand of three pumps exceeds the rated output of Generator 1*

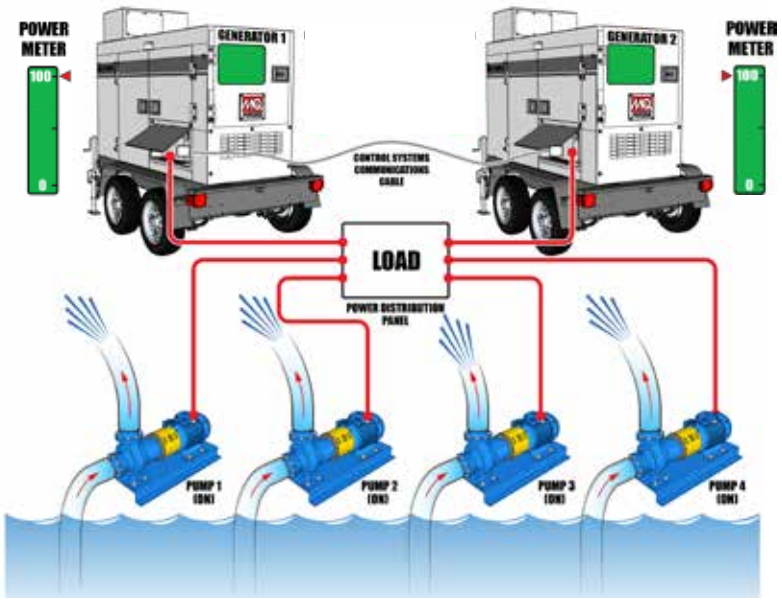
Response: *Generator 2 starts and comes online to meet the increased power demand. The generators equally share the workload.*



Application: *Pumps 1, 2, and 3 are in operation. The demand increases as Pump 4 is now needed.*

Situation: *The additional demand of the fourth pump is within the maximum power capacity of both generators combined.*

Response: *MQ Intelligent Load Demand ensures that the generators share the total workload. The system is now sustaining the entire demand of the pump station.*



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MQ Power Paralleling System

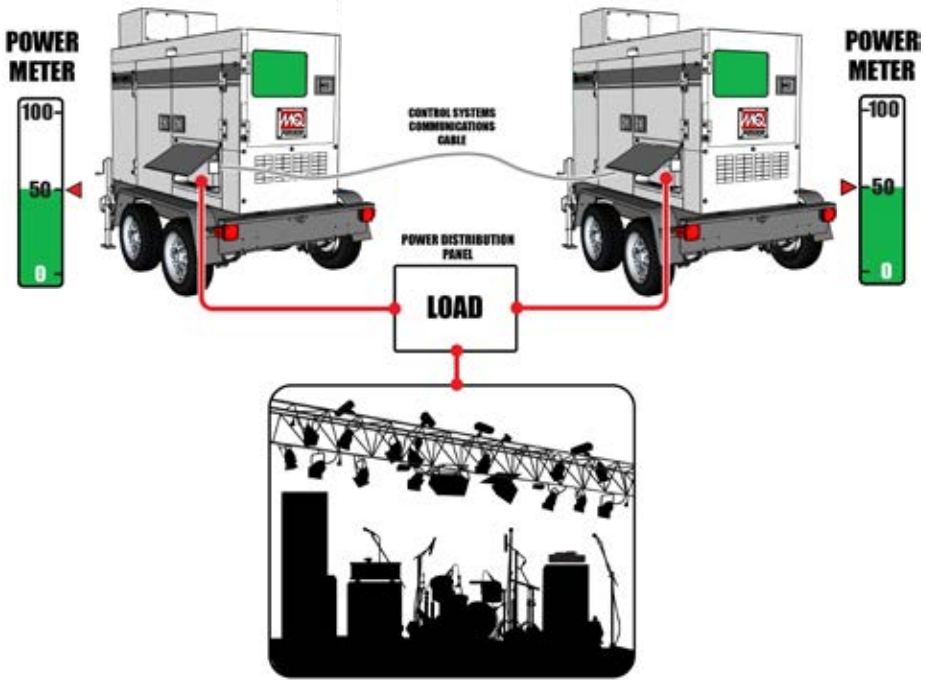
Paralleling for power redundancy

In this example, two MQ Power Generators are being used to power an outdoor concert venue. It's a big event so the organizers don't want to run the risk of losing power during the show, so they have opted to run two generators in parallel.

***Application:** A live concert venue is powered by portable generators.*

***Situation:** Each generator is capable of handling ALL of the power demands of the entire venue without assistance from the other.*

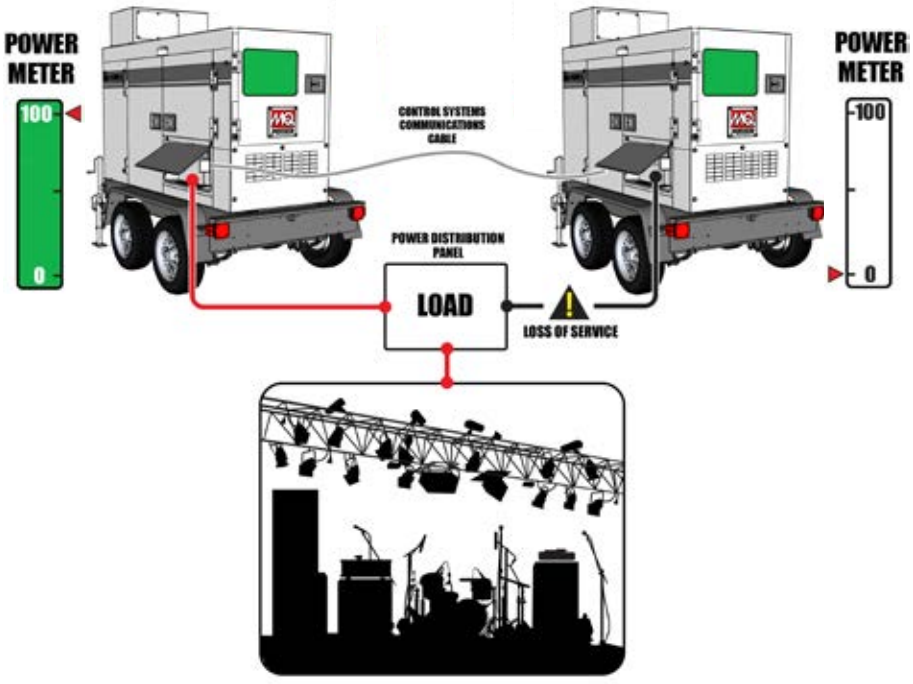
***Response:** Both generators are online and provide SIMULTANEOUS POWER to the application because they are in **parallel**.*



***Application:** In the event of a power loss from one generator, the other continues to provide power to the application.*

***Situation:** The power cables are severed between the generator on the right and the venue, causing a loss of service.*

Response:** The generator on the left continues to provide power to the entire venue **instantly, without interruption.



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All features and specifications are subject to change without notice.
Revision (1018)

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