

Unleashing Power Design Pro™: Your Ultimate Engineering Solution

Backed by nearly 60 years of experience in power generation and engineering, Power Design Pro™ (PDP) from Generac aims to simplify the process of finding the generator size for your needs. This unmatched generating software solution utilizes innovative algorithms that accurately determine generator size and design based on your project inputs, accounting for a load's true characteristics to help ensure optimal generator compatibility.



Key Benefits of Power Design Pro

01. Efficiency and Accuracy Enhancements:
Power Design Pro is a value-engineered solution that helps you right-size your generator. With an extensive list of predefined loads and accurate algorithms, this powerful mechanical and electrical sizing and design tool can assist you in preventing project delays and unnecessary costs by identifying the recommended generator for the job on the first try, in real time.



02. Flexibility and Customization Options:
This cloud-based, turnkey sizing tool helps you compare and contrast various generator designs and sizes. With some simple clicks, you can make selection updates to alter the results, allowing you to review equipment and cost modifications as part of a one-stop solution center.

Features at a Glance

- Have a Project in Under 15 Minutes*:**
Depending on your project and the load and default settings you select, you can accurately determine the recommended size generator for your described job in 15 minutes or less with Power Design Pro.
- Easy to Use:**
Even with multiple loads, PDP's web interface is simple to understand. Enter basic load information, adjust load parameters as needed, and immediately see the load's impact on the generator performance and size. You can also save your project and access it through one login on multiple devices.
- 15 Predefined Loads:**
PDP has more predefined load options than most competitors' software, allowing you to find solutions that more accurately fit your project loads.
- Obtain Certificate of Occupancy (CO):**
Accurate generator performance modeling during design can help you avoid the discovery of costly generator performance issues on commissioning day, and any subsequent back charges. Utilize PDP to help your project meet the requirements of the National Electric Code, Section 220, and obtain COs. (Using PDP to calculate emergency and standby power requirements meets NEC Article 220 for feeder sizing.)
- Get It Right the First Time With Power Design Pro:**
Projects evolve as they move through the design phase. Using PDP, it's easy to update individual loads and see how incremental design changes may affect generator sizing requirements and performance. Track project changes by simply creating multiple versions of a generator sizing project within PDP.
- Get an Expert Second Opinion:**
Share your initial sizing solution with a Generac Power Solutions manager to review load modeling and provide feedback on the recommended sizing. (Note: Generac does not have access to any PDP project data unless you choose to share it.)

*Users can typically complete an average project using average predefined loads in 15 minutes or less. More difficult projects will take longer.

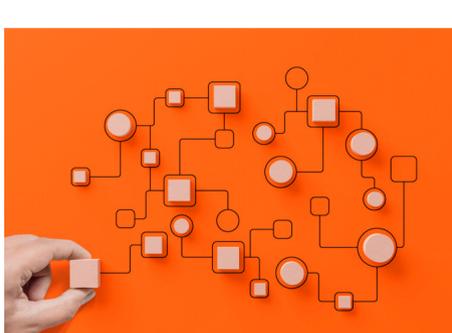
Workflow Showcase

Power Design Pro draws on Generac's six decades of industry knowledge, with the software providing predefined loads to help guide engineers and hasten the generator selection process. The workflow sequence includes:

01. 02. 03. 04.

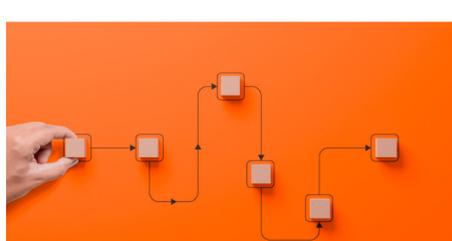
<p>Load Input and Modeling: An engineer inputs data into PDP by making selections for load characteristics and generator design.</p>	<p>Generator Sizing and Customization: PDP's sizing tool interfaces with various generator options to find the recommended equipment for your project.</p>	<p>Harmonic Analysis and Mechanical Design: The tool completes a full harmonic and transient analysis, addressing mechanical design and proper generator-to-load compatibility.</p>	<p>Bid Spec Generation and Export: PDP generates your unique bid specification document and exports a report for your use. The gathered data includes installation drawings, spec sheets, an exhaust sizer, and emissions details.</p>
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Real-World Impact



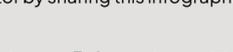
01. Before:
As part of a traditional design process, an engineer would make an educated guess at generator size, trying to piece together scattered elements and make unclear connections. However, if anything changed during the design phase or any miscalculations were made, this jeopardized the project and delayed the certificate of occupancy and NEC compliance. In addition to falling behind schedule, choosing the wrong generator size was a costly mistake, potentially requiring thousands or even hundreds of thousands of dollars in rework, back charges, change orders, and rush fees.

02. After:
Now, with PDP, engineers have a streamlined, optimized process with interconnected elements and clear progression. This software sizing tool not only helps drive project decisions through on-time solutions but helps enable you to make an accurate generator purchase the first time and realize significant financial benefits.



Engage and Share

Has Power Design Pro worked for you? Help other engineers quickly and accurately find the information they need to select their next generator by sharing this infographic on social media.



Contact Us and Learn More

For inquiries and support, [contact the Generac team](#). You can also visit the [Power Design Pro website](#) for more information. **Become a power pro today!**



powerdesignpro.com