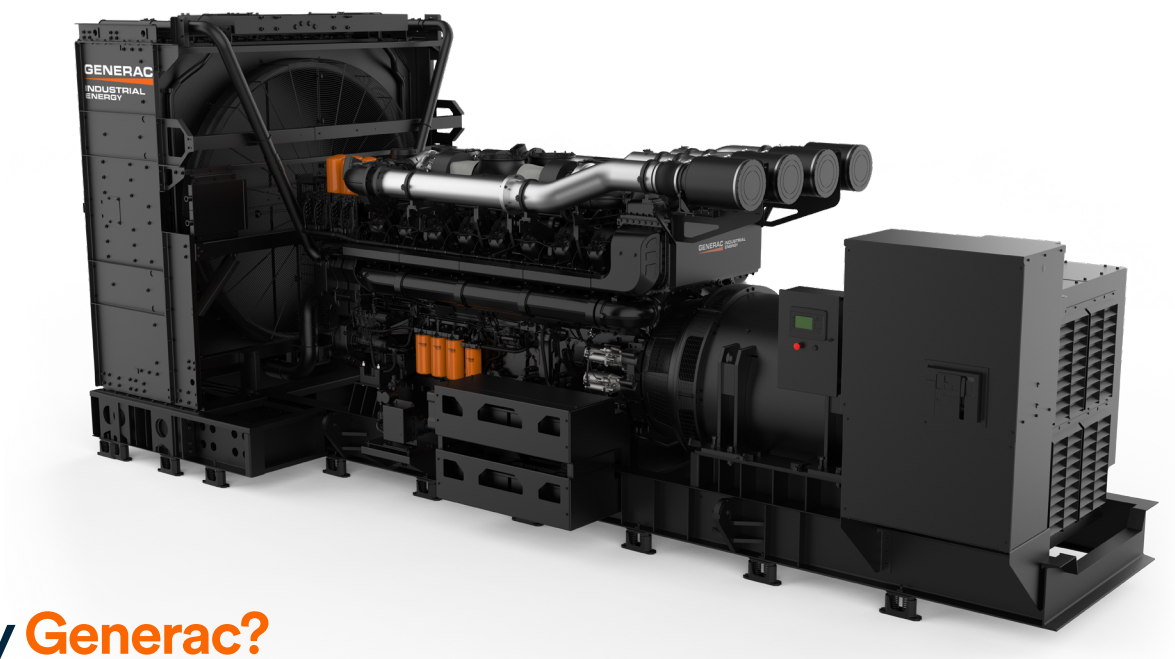
Mission Critical. Non-Negotiable.

GENERAC® INDUSTRIAL ENERGY

Scalable, High-Performance Large Megawatt Generators

Generac's 2.25-3.25 MW generator platform is engineered to provide unmatched reliability, faster deployment, and integration with microgrid and energy storage solutions.



Why Generac?

Faster deployment, shorter lead times

Unlike traditional power providers, Generac's supply chain and manufacturing efficiencies enable rapid deployment and installation, reducing project delays.

Designed for scalability & flexibility

Modular design supports multi-unit deployments, ensuring a future-proof solution that grows with evolving power needs.

Proven track record in critical infrastructure

Generac has decades of experience in mission-critical backup power, supporting data centers, hospitals, and industrial facilities worldwide.

Market Applications

Healthcare Facilities

Uninterrupted backup power for hospitals and clinics, ensuring patient safety and continuous operation of critical medical equipment.

Water Utilities

Reliable standby generation to safeguard water treatment and distribution systems, protecting communities with uninterrupted access to clean water.

Large Manufacturing Plants

High-capacity backup power for continuous production, minimizing costly downtime and maintaining operational safety during outages.

Data Centers

Critical backup power for Enterprise, Edge, Colocation and Hyperscale data centers.

Technical Specifications

Model		SD/MD2250	SD/MD2500	SD/MD2750	SD/MD3000	SD/MD3250
Ratings*	ESP (kW)	2250	2500	2750	3000	3250
	DCR (kW)	2250	2500	2750	3000	3250
	DCCR (kW)	2025	2250	2475	2700	2925
Engine	Arrangement	V12	V12	V16	V16	V16
	Displacement	65.6L	65.6L	87.5L	87.5L	87.5L
	Fuel System	High Pressure Common Rail				
	Aspiration	Turbocharged & air-to-water cooled				

***Emergency Standby Power (ESP):** maximum power available for a varying load for the duration of a main power network failure. Consistent with the ISO-8528-1 definition of Emergency Standby Power with a 70% average load factor.*

***Data Center Rating (DCR):** Generac defined rating for Data Center applications. Similar to ESP rating except allowing a 85% load factor. Compliant to Uptime Tier I and Tier II standards.*

***Data Center Continuous Rating (DCCR):** Generac defined rating for Data Center applications. Similar to ISO-8528-1 Prime Rating, with 10% overload capability and a 100% load factor. Compliant to Uptime Tier III and Tier IV standards.*

For full definitions, consult Generac's technical ratings guideline for each rating.

Key Features

- **Baudouin M55 engines,** which have a proven track record providing backup and continuous power for data centers and mission critical applications around the globe. These engines utilize a high-pressure common rail fuel system to provide exceptional transient response, high ambient temperature derate capability, and low NOx emissions.
- **Deep Sea G8601 Controller,** which can be configured to fit virtually any need and provides a wide range of high-end features for mission critical applications.
- **Marathon DataMAX alternators,** which are purpose built for highly demanding global Data Center applications with reliability and low reactance in mind.
- **Low emissions,** designed to help meet the most stringent state requirements in Virginia and ready for use with compliant Tier 4 aftertreatment systems.
- **Redundant starting system,** which has an additional set of engine starters, batteries and battery chargers available. Redundant systems are fully isolated to avoid single points of failure.
- **High ambient (50°C) cooling packages,** for top performance in the most demanding environments.
- **Generac Modular Power Systems (MPS),** enhance reliability, scalability, and serviceability by integrating multiple generators utilizing Deep Sea onboard paralelling controls. Providing redundant, flexible, and easily expandable power solutions.
- **Configurable circuit breakers,** offered as left and/or right-side breakers, are configurable up to full rated generator amperage at 480V.

Contact us today to speak with an expert about your specific power needs

GENERAC®
INDUSTRIAL ENERGY

Generac Power Systems, Inc.
S45 W29290 Hwy. 59, Waukesha, WI 53189
www.Generac.com/Industrial/
888-GENERAC (436-3722)

REV 10/2025

©2025 Generac Power Systems. All rights reserved.
Specifications are subject to change without notice.