



**MOTEURS**  
**Baudouin**  
A WEGH COMPANY

BUILT TO

**POWER**

**POWER GENERATION SOLUTIONS  
FOR DATA CENTRES**



# BAUDOIN, BUILT TO LAST

For over a century, Baudouin has been at the forefront of advancements in the marine and power generation industries, delivering robust, reliable, and durable solutions. Founded in 1918, our heritage of quality and continuous investment in innovation defines everything we do.

Our generator sets are engineered to meet the demands of critical applications, such as data centres, ensuring reliable power under even the most challenging conditions. With Baudouin, you can trust in a legacy of excellence and a commitment to powering the future.



Baudouin's state-of-the-art factories span an impressive 160 000 m<sup>2</sup> in Europe and Asia, dedicated to delivering industry-leading Diesel and Gas Power Generation solutions.

With small, medium and high-power test benches, we rigorously test every generator set to ensure unmatched performance and reliability. Our commitment to quality, innovation, and precision positions Baudouin as a trusted partner for powering critical applications worldwide.



EUROPEAN BASED,  
WITH WORLDWIDE  
PRESENCE



300+ GLOBAL  
PARTNERS  
NETWORK



100 YEARS OF  
MANUFACTURING  
HIGH-PERFORMANCE



## FRANCE

- ✓ Diesel & Gas engines
- ✓ Gensets
- ✓ 20 000 m<sup>2</sup> facilities



## CHINA

- ✓ Diesel & Gas engines
- ✓ Gensets
- ✓ 132 000 m<sup>2</sup> facilities



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## Message from THE CEO



### **FABRIZIO MOZZI**

CEO of Baudouin

“At Moteurs Baudouin, we are driven by a singular vision: to be recognized as a global leader in innovative power solutions.”

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Powering the digital backbone of our world demands unwavering commitment to excellence. Our generator sets power data centres, safeguarding the heartbeat of global connectivity. Every solution we engineer carries this legacy of precision, delivering the resilience that modern infrastructure demands.

In a world where each millisecond of uptime matters deeply, we stand as the trusted partner for mission-critical power generation.



# BAUDOQUIN, POWER SOLUTIONS FOR DATA CENTRES



160%

is the projected growth in data centre power demand by 2030, fueled by the rapid rise of cloud computing, AI, and digital transformation, emphasizing the need for reliable and scalable power solutions.

Source: Goldman Sachs



\$13Bn

is the projected value of the data centre generator market by 2030, underscoring the indispensable role of backup power in ensuring uninterrupted digital operations.

Source: PowerGen Statistics



Time counts

Few seconds is all it takes for backup power to activate, ensuring seamless operations during outages.





Data centres are vital to the digital economy, where uninterrupted uptime is crucial to prevent data loss, costs, and trust issues.

To meet this need, Baudouin gensets provide instant, reliable backup power, activating within seconds of an outage to maintain continuous operation.

Designed for high-demand environments, they handle heavy loads and scale with data centre growth, ensuring consistent performance.

Baudouin gensets also feature advanced monitoring for remote oversight and predictive maintenance, critical for data centre reliability. Compliant with strict emissions and noise standards, Baudouin offers a sustainable, efficient power solution, perfectly suited to the unique demands of the data centre market.



The M33 and M55 generator sets are engineered to deliver industry-leading performance, reliability, and efficiency, ensuring uninterrupted power for critical data centre applications. Here's why they stand out:

#### **UNMATCHED POWER AND RELIABILITY**

- Deliver up to 5250 kVA, ideal for critical operations.
- Exceed stringent standards, including Uptime Institute.
- Tier requirements and ISO 8528-G3, providing operators with peace of mind.
- Optimized for sudden power demands with dual starting motor redundancy, enhancing reliability in emergencies.

#### **EXCEPTIONAL LOAD ACCEPTANCE**

- Equipped with 4 turbochargers, they handle 0-100% exceptional load transitions, ensuring seamless operations during power fluctuations.  
Compatible with oversized alternators for low and
- high-voltage applications, adapting to diverse facility requirements.





## DURABILITY AND COST-EFFICIENCY

- Built from high-quality, durable materials and assembled for long-lasting performance.
- Designed with optimized fuel consumption, ensuring cost-effective operation without compromising power output.

## EASE OF INTEGRATION

- Features a user-friendly design for straightforward installation. Seamlessly integrates into existing systems, simplifying deployment for operators.

With the M33 and M55 gensets, data centre operators can ensure reliable, efficient, and sustainable power solutions that meet the demands of today's mission-critical environments.

# M33 & M55

## TECHNICAL HIGHLIGHTS

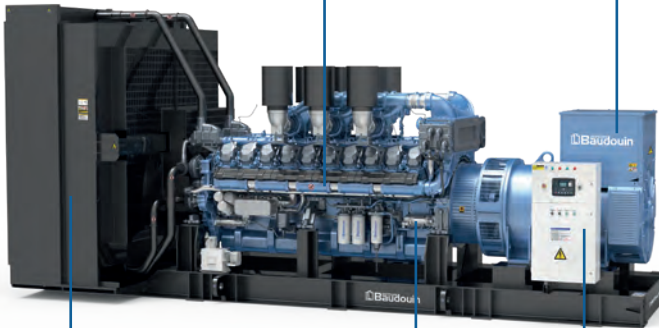
Provide data centre  
with uninterruptible  
power supply solutions

### ENGINE

EPA Tier 2 emission option  
Redundant starting system option  
Super-high pressure  
common-rail fuel system for  
more peak fire pressure  
High allowable back pressure

### ALTERNATOR

Specifically designed for  
Data Centre  
Effectively responds  
to the nonlinear load



### RADIATOR

High ambient designed capability  
High performance  
Low noise

### INTELLIGENT CONTROL SYSTEM

Microcomputer intelligent controller  
Designed for AMF and Syn function  
Real-time clock provides accurate  
event logging  
Ethernet communication provides  
built-in advanced remote monitoring  
Can be integrated into BMS and PLC

### START MOTOR

Dual redundant starters  
as standard

# M33 & M55

## TECHNICAL HIGHLIGHTS

### OUTDOOR ENCLOSURE\*

Wall panel designed for 2 hours fire rated, comply with BS476 Part 22 as an option.

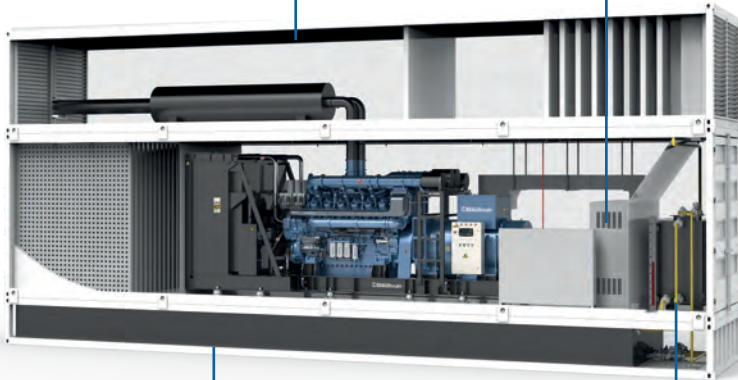
Fire suppression systems, heat sensors, and alarm can be equipped as an option.

Custom noise reduction design is available.

### POWER DISTRIBUTION SYSTEM

IP requirement is available

Circuit breaker of international brand name



### BOTTOM FUEL TANK

Large capacity for 48h continuous operation.

Fuel polishing system and fuel pumps can be incorporated.

Fuel monitoring panel as a complete system.

### DAILY FUEL TANK

With fully automatic fuel system.

\* Container types may be available upon request, depending on your region and requirements. For further information, please refer to your Baudouin sales representative.

# M33 & M55:

## BAUDOUIIN GENERATOR SETS RANGE FOR DATA CENTRES



M33 & M55  
UPTIME INSTITUTE  
RATINGS PRE APPROVED



ALL GENSETS  
SUITABLE TO BE  
USED WITH HVO



ISO 8528-G3  
COMPLIANT



UP TO 5250 KVA  
HIGHEST RATING SPEED  
GENSET AVAILABLE  
WORLDWIDE



BEST-LEAD TIME  
IN THE MARKET  
< 12 MONTHS



Baudouin platforms are optimized for enhanced Data Centre Power ratings, with offerings such as:

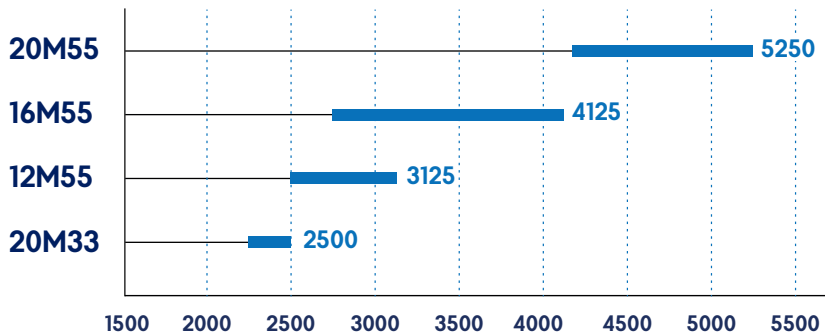
The 20M33 providing 2500 kVA,

The 12M55 offering 3125 kVA,

The 16M55 delivering 4125 kVA,

and the 20M55 reaching an impressive 5250 kVA to meet the highest power demands of hyperscale projects.

## POWER RATINGS (kVA)



Baudouin gensets combine advanced engineering with practical solutions to meet the most demanding data centre requirements, making them a trusted choice for operators worldwide.





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# DIGITAL TOOLS & MONITORING

## ADVANCED DIGITAL MONITORING FOR TOTAL CONTROL

Baudouin gensets are equipped with cutting-edge digital monitoring systems, giving operators full control and visibility over their power solutions. With the ability to monitor your genset in real-time, you can ensure optimal performance and address potential issues before they escalate, minimizing operational risks.

## REMOTE DIAGNOSTICS FOR QUICK RESOLUTIONS

Our advanced technology allows for remote failure diagnostics, enabling swift identification and resolution of issues without the need for on-site inspections. This capability reduces downtime and ensures your data centre operations remain uninterrupted, even during unforeseen events.

## COMPREHENSIVE DATA RECORDING

Our gensets are designed to record running data, providing a complete history of operational performance. This detailed information helps operators track efficiency, identify trends, and make data-driven decisions to optimize their power systems.

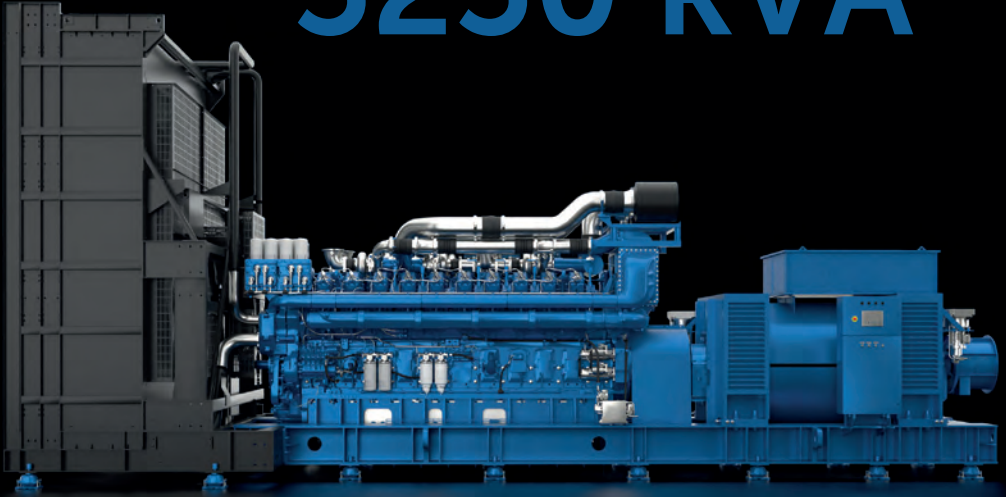
## PROACTIVE MAINTENANCE ALERTS

Preventive maintenance reminders built into Baudouin's monitoring systems help operators stay proactive, ensuring your genset receives timely care to extend its lifespan and deliver reliable performance for critical applications.

**BUILT TO**

**POWER**

**5250 kVA**



**RELIABLE BACKUP POWER SOLUTIONS FOR DATA CENTRES**

**HIGHEST RATING SPEED AVAILABLE ON THE MARKET**

**UPTIME INSTITUTE RATINGS PRE APPROVED**

**ISO-8528 G3 LOAD ACCEPTANCE PERFORMANCE**

**BEST LEAD TIME**







# SERVICE AND SUPPORT

At Baudouin, we know data centre operators need reliable, efficient, and worry-free power systems.

Our tailored maintenance solutions ensure uninterrupted operations, extend equipment lifespan, and optimize costs. With advanced monitoring tools and expert support, we help prevent downtime, enhance performance, and meet compliance standards, empowering your data centre to scale with confidence.

## BAUDOUIIN PARTS AVAILABLE EVERYWHERE, ANYTIME

-  30 000+ parts in stock for immediate availability
-  Rapid response and genuine spare parts minimize downtime
-  24/7 comprehensive online spare parts ordering system
-  Genuine parts shipped worldwide within 24 hours

Warranty Coverage: a 3-year comprehensive warranty unlimited working hours during the coverage period.





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# DATA CENTRE REFERENCES

## FEDERAL INSTITUTE OF TECHNOLOGY

SWITZERLAND

**POWER OUTPUT:** 1000 kW NG

**ENGINE:** 16M33 PowerKit Engine

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## THE GREATER BAY AREA

CHINA

**POWER OUTPUT:** 31x1.8 MW

**ENGINE:** 12M55

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## DATA CENTRE

ITALY

**POWER OUTPUT:** 90.8 MVA

**ENGINES:** 4x12M26 + 1x12M33  
4x12M55 + 24x12M55

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## DATA CENTRE

SINGAPORE

**POWER OUTPUT:** 2.4 MW, 2 MW & 1.8 MW

**ENGINES:** 14x16M55  
+ 5x12M55 + 2x20M33

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## GAMAM DATA CENTRE

ASIA

**POWER OUTPUT:** 4x3 MW (11kV, 60Hz)

**ENGINES:** 16M55  
+ 11 kV generator

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## LEADING CLOUD PROVIDER

MEXICO

**POWER OUTPUT:** 2x2.5 MW  
+ 1x600 KW (380V, 60Hz)

**ENGINES:** 16M55 + 380V generator

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## CHIP PLANT

SINGAPORE

**POWER OUTPUT:** 4x2.2 MW (400V, 50Hz)

**ENGINES:** 12M55  
+ Leroy Somer generator

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## LEADING ENERGY PROVIDER

ITALY

**POWER OUTPUT:** 5x1.6 MW

**ENGINE:** 20M33

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# READY TO POWER YOUR DATA CENTRE?

Founded in 1918, Moteurs Baudouin provides advanced power solutions for mission-critical applications across industries.

With over a century of experience and operations in more than 130 countries, Baudouin is renowned for delivering high-performance, reliable, and sustainable backup power solutions to support industries ranging from data centres to critical infrastructure.



Flash this QR CODE

Replay our insightful webinar on:

“Understanding the use of HVO and ISO 8528 in Data Centre Engines”

For more information, contact:

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