MOTEURS Baudouin
A WEICHAI COMPANY

POWERKIT

DIESEL POWER SOLUTIONS

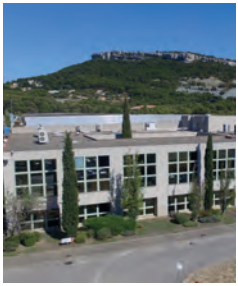
15-4125 kVA BACKUP POWER ENGINES
FOR MISSION-CRITICAL APPLICATIONS





FROM FRANCE TO GLOBAL POWER

A LEGACY OF ENGINE EXCELLENCE



Since 1918, Baudouin has been designing and manufacturing engines for the most demanding power environments. Founded in Cassis, France, the company built its reputation on marine-grade durability, where reliability and mechanical endurance are essential.



Today, Baudouin PowerKit engines are developed and validated in France and manufactured across **three strategic production sites in France, China and India**, ensuring industrial flexibility, controlled quality and competitive lead times for OEMs worldwide.

- French Heritage since 1918
- Global strength as part of Weichai Group
- 100+ years of engineering expertise
- 1M+ engines produced per year
- Fastest lead times available on the market
- Stage V solutions

As part of the **Weichai Group**, one of the world's largest engine and powertrain manufacturers, Baudouin benefits from advanced R&D resources, large-scale testing capabilities and a robust global supply chain.

This combination allows us to deliver engines that meet modern performance expectations while preserving the mechanical robustness that defines the PowerKit range.

CERTIFICATIONS







BUILT TO POWER

CRITICAL APPLICATIONS

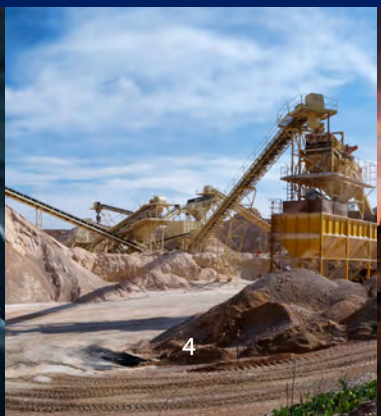
Engine performance you can rely on when power cannot fail

Critical infrastructures depend on engines capable of delivering instant, stable and reliable power during utility failures. Hospitals, industrial facilities, airports, financial institutions, telecom networks and public safety services operate in environments where power continuity is essential.

Baudouin PowerKit engines are engineered to equip generator sets dedicated to critical backup applications. Their fast start capability, high transient response and robust mechanical design ensure predictable behavior during sudden load acceptance and demanding operating conditions.

Building on this foundation, Baudouin has also developed **PowerKit engines specifically rated for Data Centre Power (DCP)**, engineered to meet the unique operational and electrical demands of data centre generator applications.







CUSTOMER BENEFITS

Comprehensive product line to meet a wide range of data centre requirements

Market leading warranty: 2 years, unlimited working hours

Robust and reliable for secure power provision

High transient and block load capabilities

Dual starter options for increased redundancy



ENGINEERING REQUIREMENTS FOR CRITICAL POWER

Critical applications demand performance close to 100% uptime. Key engineering criteria include:

- Instant response: UPS handles initial load while generators start typically within <10 seconds
- Compliance with ISO 8528-5 for transient response and voltage /frequency stability
- High step-load capability to accept sudden electrical demand
- Reliable performance in extreme conditions: heat, dust, humidity, cold, vibration, or altitude
- Predictable maintenance schedules and extended service intervals to reduce operational disruption

BUILT TO POWER

DIESEL POWERKIT ENGINES

Diesel PowerKit range is designed to support the full spectrum of critical power requirements. Covering a wide power range, these engines are designed to operate reliably across **prime (PRP), standby (ESP), or continuous (COP) duty ratings,** allowing OEMs to configure solutions adapted to critical applications.

Each PowerKit engine is validated through extensive bench and endurance testing to ensure stable speed control, predictable transient response and consistent mechanical performance under variable load conditions.

Available in both regulated and non-regulated versions, the range offers OEMs maximum design freedom. Farmers and equipment manufacturers alike can count on proven performance, simplified integration, and reliability tested in the harshest conditions.

Emergency Standby Power (ESP)

Designed for backup operation during grid outages, delivering maximum power with rapid start capability and stable performance during infrequent but critical use.

Prime Rated Power (PRP)

Suitable for variable load operation over unlimited annual hours, offering flexibility where grid reliability is limited.

Continuous Power (COP)

Engineered for constant load operation, supporting uninterrupted base-load applications with optimized durability.

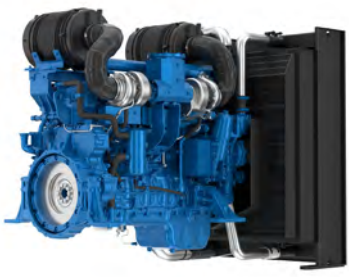
CUSTOMER BENEFITS

- Best-in-class standard warranty: PRP 2 years, unlimited hours ESP 4 years, 800 hours
- Multiple options available including a Telecom design to optimize service intervals
- Dual speed available up to 1 MW for more flexibility and optimized inventory (50/60Hz)
- Fuel consumption optimized versions available

ENGINES | ESP / PRP DUTY* (RPM: 1500-1800)

4M06	kVA: 15-69	**8M21**	kVA: 600-650	**12M33**	kVA: 1125-1625
4M10	kVA: 63-125	**6M31**	kVA: 600-1000	**16M33**	kVA: 1750-2188
6M11	kVA: 130-220	**6M33**	kVA: 650-825	**20M33**	kVA: 2000-2750
6M16	kVA: 200-385	**8M33**	kVA: 800-1125	**12M55**	kVA: 2250-3125
6M21	kVA: 375-575	**12M26**	kVA: 800-1250	**16M55**	kVA: 2813-4125

* For COP ratings, please contact your sales representative.



6M31 PowerKit Diesel Engine

BUILT TO POWER

DIESEL DCP POWERKIT ENGINES

Data centres require engines capable of delivering exceptional reliability, repeatable performance and precise speed control during emergency operation. **Baudouin PowerKit DCP engines** are specifically engineered and validated to support generator applications in data centre environments.

These engines are optimized for high load acceptance, stable frequency response and consistent behavior under highly dynamic electrical profiles. High-displacement platforms such as **M33 and M55 series** offer high power density, enabling OEMs to design compact, high-output generator solutions.



CUSTOMER BENEFITS

- Comprehensive product line to meet a wide range of data centre requirements
- Market leading warranty: 2 years, unlimited working hours
- Robust and reliable for secure power provision
- High transient and block load capabilities
- Dual starter options for increased redundancy

ENGINES (RPM: 1500-1800)

6M33 kVA: 650-750

6M31 kVA: 688-800

8M33 kVA: 800-1000

12M33 kVA: 1125-1500

16M33 kVA: 1750-2000

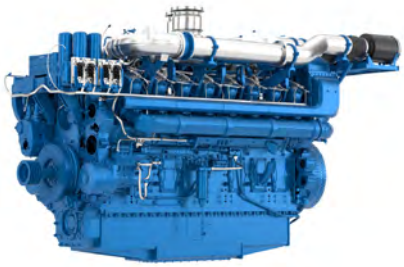
12M55 kVA: 2250-2813

16M55 kVA: 3000-3750

20M33 kVA: 2000-2500

KEY ENGINE CHARACTERISTICS

- Optimized transient response
- High mechanical robustness
- Advanced electronic speed control
- Platforms adapted to large-scale critical installations



16M55 PowerKit Diesel Engine

BUILT TO SUSTAIN

ENGINE EMISSIONS SOLUTIONS

Stage V compliance is more than meeting the standard.

Baudouin's advanced SCR systems, crystallization control, and intelligent thermal management guarantee uptime, extend system life, and protect both productivity and the environment.

- Cleaner exhaust: 96% NOx reduction, 98% PM reduction, 94% CO reduction
- Full power across duty cycles with no compromise on output
- Thermal management ensures reliability in extreme climates
- Proven durability: thousands of bench and field hours

HVO compliance for cleaner diesel engine

Hydrotreated Vegetable Oil (HVO) is at the heart of our commitment to sustainable energy. HVO, a renewable diesel substitute, significantly reduces greenhouse gas emissions and air pollution.

By leveraging the potential of organic materials, we are not only promoting cleaner energy but also lowering our dependency on traditional fossil fuels.

Available engine certifications and configurations

CUSTOMER BENEFITS

- Compact design for rental applications
- Low urea and oil consumption
- Reliable ATS technology such as efficient DOC & SCR
- 50°C ambient capability

ENGINES

EU Stage V engines (RPM: 1500) - (ONLY PRP)

- **4M12** kWe: 100
- **6M13** kWe: 145-200
- **6M16** kWe: 250
- **6M21** kWe: 300-400
- **6M33** kWe: 500-600
- **12M33** kWe: 1000



12M33 Stage V PowerKit Engine

EU Stage IIIA (RPM: 1500-1800)

- **4M08** kWe: 14-36
- **4M06** kWe: 40-55
- **4M10** kWe: 50-100
- **4M12** kWe: 90-130
- **6M11** kWe: 120-160
- **6M12** kWe: 144-200
- **6M16** kWe: 250-312
- **6M21** kWe: 300-460
- **8M21** kWe: 480-520



8M21 PowerKit Engine

ENGINES

EPA T2 (RPM: 1500-1800)

6M33 kWe: 500-644

8M33 kWe: 600-840

12M33 kWe: 920-1300

16M33 kWe: 1250-1750

20M33 kWe: 1600-2200

12M55 kWe: 2000-2500

16M55 kWe: 2250-3300



6M33 PowerKit Engine

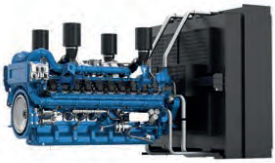
NOx < 2000 mg/Nm^3 at 5% O_2 (RPM: 1500)

12M33 kWe: 800-880

20M33 kWe: 1600-1800

12M55 kWe: 2000-2200

16M55 kWe: 2250-3300



20M33 PowerKit Engine



BUILT TO SERVE

GLOBAL SERVICE, SPARE PARTS, & NETWORK SUPPORT

Our engines are supported by a global network of certified distributors and service partners, ensuring rapid access to technical expertise, genuine spare parts, and immediate assistance wherever it is required.

Leveraging a global supply chain and three strategic production sites, Baudouin offers best-in-class lead times, efficient parts delivery, and professional support to keep your operations running when power cannot fail.



- Global network coverage with certified service partners
- Genuine spare parts always available for fast replacement
- Factory-trained technicians providing expert service
- Efficient logistics and supply chain for quick delivery

GLOBAL REFERENCES

TRUSTED WORLDWIDE FOR CRITICAL POWER

Baudouin engines are deployed across thousands of critical power installations worldwide, supporting hospitals, industrial facilities, telecom infrastructure and strategic installations.



MUNICIPAL BUILDING
MALTA

DUTY: ESP

ENGINES: 2 X 12M33G1400/5



PRIVATE SCHOOL
SOUTH AFRICA

DUTY: ESP

ENGINES: 6 X 6M16G220/5
2 X 6M16G350

HOTEL
FRANCE

DUTY: ESP

ENGINE: 6M16G250

TUNNEL
SPAIN

DUTY: ESP

ENGINES: 2 X 12M33G1400/5

GLOBAL REFERENCES

FOR DATA CENTRES

Trusted by data centre operators worldwide, these references showcase the PowerKit range's capability to meet the highest standards of mission-critical power.



DATA CENTRE
MEXICO

POWER OUTPUT: 6.3 MVA

ENGINE: 16M55G2540

CAMPUS DATA CENTRE
SWITZERLAND

ENGINES: 2 X 12M33G1400/5

DATA CENTRE
SINGAPORE

POWER OUTPUT: 68.8 MW

ENGINES: 14 X 16M55
5 X 12M55
2 X 20M33

DATA CENTRE
ITALY

POWER OUTPUT: 90.8 MVA

ENGINES: 4 X 12M26G1100
8 X 12M33G1400
4 X 12M55G2300
24 X 12M55G2750

Wanna go further?
Please find below detailed rating cards
for all PowerKit engines.



Rating card 50 Hz



Rating card 60 Hz



Rating card DCP

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