

PowerKit
DIESEL & GAS
POWER SOLUTIONS



SINCE 1918

Cassis, France

For over 100 years, Baudouin has manufactured the highest quality engines for marine and power generation applications. In the hostile environment of a marine operator, reliability and durability are paramount, and Baudouin has been successfully serving this market since 1918. It's from this marine heritage that Baudouin has built a reputation for quality and dependability.

Through the 1960's and 1970's Baudouin manufactured complete generator sets and engines for power generation applications for some of the **most prominent generator manufacturers in the world.**

In 2008, Baudouin was acquired by **Weichai, one of the largest engine makers and industrial equipment manufacturing groups worldwide.** Founded in 1946, Weichai's technical capabilities, global footprint, and a strong background in power generation have made this partnership a perfect match.

Our combined expertise in research and development, precision manufacturing, superior quality, and expansive sales and service support, make Baudouin the ideal partner in the power generation industry.



Today, Baudouin is proud to offer one of the most comprehensive lines of power generation engines available on the market.

Weifang, China



GLOBAL SERVICE & SUPPORT



Over 300 partners worldwide



Factory-trained technicians



40,000 Genuine spare parts in stock



Market-leading warranties

PowerKit BY BAUDOIN

HERITAGE

100 years experience in design, manufacturing, support and quality goes into every PowerKit. You can expect reliability, durability and excellent total cost of ownership from our products. Over the life of every PowerKit, dependability is guaranteed by our strong European quality standards, robust components, and best-in-class warranties.

POWER RANGE

Our full range of PowerKit products spans 18 to 4125 kVA diesel and 63 to 1750 kVA in gas, a range that few engine manufacturers can match. We are achieving excellence in fuel consumption, load acceptance and power density, making PowerKit the range of choice. With nine R&D centers across the world, we are continuously improving and tailoring our range based on local customer and regulatory requirements.

DESIGN OPTIMIZED FOR SERVICE

Marine is our DNA. Easy, fast and cost-effective maintenance and servicing are imperative in the marine industry - and our PowerKit engines are designed to meet those same requirements. PowerKit engines are economical to run, thanks to longer intervals between overhauls, and easy to maintain, giving our customers a competitive edge.

MANUFACTURING CAPABILITY

Our partnership with Weichai means that we have huge capacity and flexibility available, so you can count on us to deliver your solutions on time, and to your specifications. Our state-of-the-art manufacturing facilities are ISO 9001, 14001 and 18001 certified.

ESP / PRP / COP
THE HEART OF POWERKIT
 18-4125 kVA

The PowerKit diesel engine range covers 18-4125 kVA – a range that few engine manufacturers can match. Baudouin offers huge flexibility to customers in the vast power ratings available, and provides mechanical and common rail engines to suit the needs of our global customers, their environment and regulations.



Baudouin PowerKit for standby generator sets is your resilient solution for critical applications.

COP

Baudouin PowerKit engines are the power at the center of continuous (COP) applications. Installations without connection to an electrical grid rely on power generation equipment to supply reliable and stable primary electrical energy. PowerKit engines are used to power equipment providing constant base load power for installations such as remote mining sites, sensitive industrial processes and rural micro-grids. Offering a highly competitive TCO, gained through excellent fuel consumption, proven durability and long service intervals, economic dependability is why customers choose Baudouin PowerKit engines for COP applications.



PRP

For electrical energy consumers requiring the security of constant power, Baudouin PowerKit products provide the dependable core of Prime Power rated generator sets. Whether supporting industrial processes or providing power to commercial activities, when connected to unreliable power sources, consumers choose PowerKit engines thanks to their durability and reliability. Baudouin PowerKit PRP products are also used as an economical alternative to the grid, in peak shaving applications, as well as supporting critical infrastructure, such as remote telecom towers. For reliable, economic and sustained power provision, PowerKit products are the prime choice of our customers.

ESP

Weather events or a technical incident on the main power grid can impact the continuity of power for sensitive activities. Critical applications need a back-up electrical system that starts automatically to ensure uninterrupted power. For the public, it means their banking data is secure, their lives are safe because the hospital is always up and running, or their resort holiday is smooth and comfortable.

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 for more flexibility and optimized inventory (50/60Hz)

Emissions optimized versions available



8M21

4M06 kVA: 18-69
RPM: 1500-1800

4M10 kVA: 65-125
RPM: 1500-1800

6M11 kVA: 125-200
RPM: 1500-1800

6M16 kVA: 200-385
RPM: 1500-1800

6M21 kVA: 375-575
RPM: 1500-1800

8M21 kVA: 600-650
RPM: 1500-1800

6M33 kVA: 650-825
RPM: 1500-1800

12M26 kVA: 815-1250
RPM: 1500-1800

12M33 kVA: 1150-1625
RPM: 1500-1800

16M33 kVA: 1750-2188
RPM: 1500-1800

20M33 kVA: 2000-2750
RPM: 1500-1800

12M55 kVA: 2000-3125
RPM: 1500-1800

16M55 kVA: 2813-4125
RPM: 1500-1800

THE POWERKIT DIESEL COP | PRP | ESP ENGINES DELIVER 11 PLATFORMS PRODUCING 18-4125 KVA IN 50 & 60 HZ.

DCP
CRITICAL POWER
 590-3300 kVA

Now more than ever, saving and protecting data is a core concern for businesses. All companies rely on robust and secure IT and cloud systems, with the need for efficient, dependable processing continually increasing with the adoption of artificial intelligence.

For the public, every second, billions of people are sending emails, video calling their families, searching on the web, and streaming music. With all of this data exchange, it is vital that data centers processing this information remain operational.

Baudouin DCP-rated PowerKit engines are fundamental components for systems which provide uninterrupted power to data centers of all sizes.



A dependable generator set will guarantee 24/7 power availability, whatever happens on the electricity network. With the huge amount of storage and processing required by data centers, this demand can equal the power requirements of a small city. Large, reliable power generation installations are a necessity to respond to this massive energy demand from the IT equipment and its cooling systems.

CUSTOMER BENEFITS

Comprehensive product line to meet a **wide range of data center** requirements

Robust and reliable for **secure power provision**

Dual starter options for increased redundancy

High transient and block load capabilities

Market leading warranty: 2 years, unlimited working hours



20M33

8M21 kVA: 590-600
RPM: 1500-1800

6M33 kVA: 750
RPM: 1500-1800

12M26 kVA: 815-1000
RPM: 1500-1800

12M33 kVA: 1150-1500
RPM: 1500-1800

16M33 kVA: 1706-1875
RPM: 1500-1800

20M33 kVA: 2000-2250
RPM: 1500-1800

12M55 kVA: 2100-2557
RPM: 1500-1800

16M55 kVA: 2813-3300
RPM: 1500-1800

BAUDOUIIN POWERKIT DCP IS THE SOLUTION OF CHOICE FOR DATA CRITICAL BACKUP POWER.

COP / PRP
POWERKIT GAS
 63-1750 kVA

As emissions standards become more stringent, power solutions must comply with these demands, while meeting ever increasing power requirements.

Gas generators have emerged as an efficient solution thanks to their environmental and economic benefits.

Gas offers a cost effective fuel option compared to other sources. Baudouin's focus on engine performance, fuel consumption and serviceability ensures a competitive total cost of ownership.

In projects that require a reduced environmental footprint, gas-fueled engines generate lower emissions than other fuel types and can use waste gas created by agricultural, wastewater treatment and other industrial processes, reducing fuel costs.

Baudouin Gas engines are ideal for co-/tri-generation applications using heat recovery capabilities, which is economically beneficial for large greenhouses, hospitals and manufacturing facilities.

Gas installations are preferred by energy users such as supermarkets and industrial plants located in urban areas, allowing direct connection to the gas network, therefore avoiding the costs and risks associated with onsite fuel storage.

Baudouin gas engines offer the perfect complement to renewable energy generation, as their operating flexibility and high efficiency can offset the intermittency of these power generation sources.



CUSTOMER BENEFITS

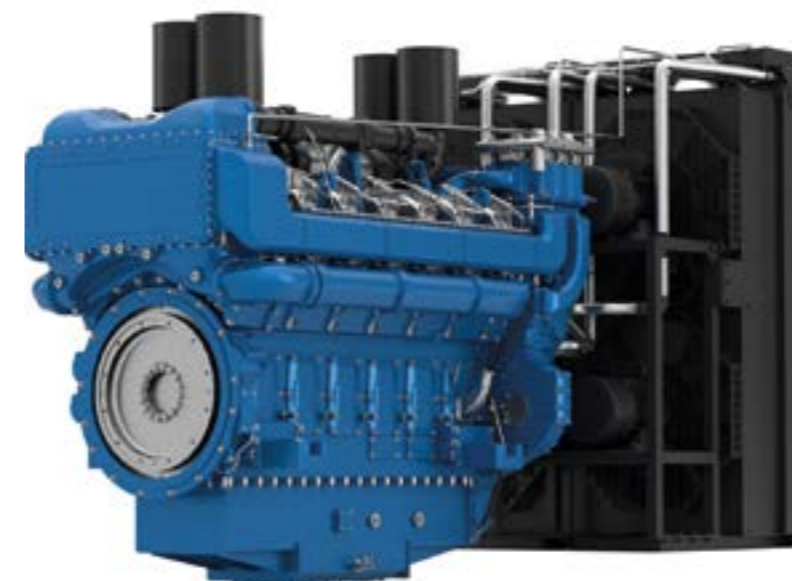
Low NOx emissions

High transient and block load capabilities

Flexible duty cycle, for COP and PRP

Low energy fuel tolerance (landfill gas & biogas)

Optimized engine performance through electronic control systems



12M55

4M11 kVA: 63-75
RPM: 1500-1800

6M11 kVA: 106-125
RPM: 1500-1800

6M16 kVA: 163-225
RPM: 1500-1800

6M21 kVA: 255-300
RPM: 1500-1800

6M33 kVA: 400-500
RPM: 1500-1800

12M33 kVA: 653-1063
RPM: 1500-1800

16M33 kVA: Up to 1400
RPM: 1500-1800

12M55 kVA: Up to 1750
RPM: 1500

POWERKIT GAS ENGINES ARE DESIGNED TO MEET THE CHALLENGES OF EFFICIENT POWER, TOTAL COST OF OWNERSHIP AND LOW EMISSIONS.

Variable Speed Engines POWERKIT VS 20-290 kWm

ROBUST ENGINES FOR INDUSTRIAL APPLICATIONS

Whether in agriculture, harbor gantry cranes (RTGs), airport ground power units (GPUs), or in food processing plants, variable speed engines deliver agile solutions to support dynamic power requirements.

By allowing adjustments in engine speed, PowerKit VS products enable precise power output and optimized fuel efficiency for applications ranging from critical firefighting to harbor and agricultural irrigation equipment.



The PowerKit VS range offers reliable operation with simple, mechanical fuel injection for easy maintenance and resilience to varying fuel quality. The PowerKit VS range is optimized for use between 1400-2200 RPM, with peace of mind ensured through a best-in-class warranty of 2 years or 2500 working hours.

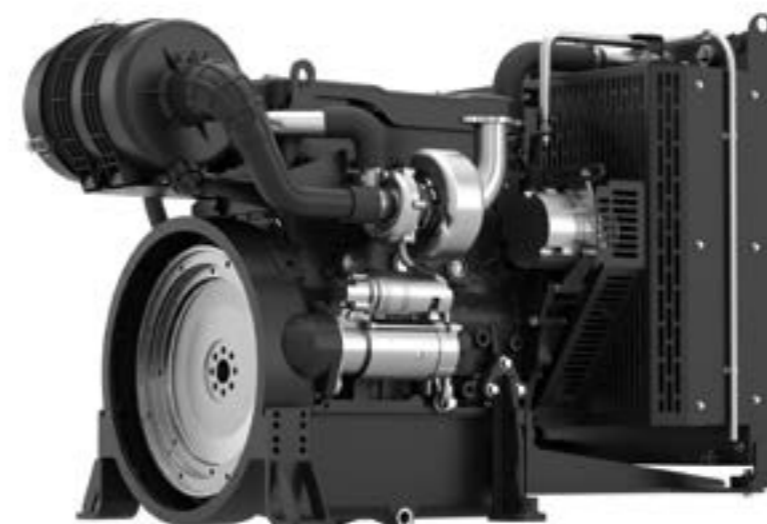
CUSTOMER BENEFITS

1500-2200 RPM
Operating range

Mechanical fuel injection
for **easy servicing**

High tolerance to
varying fuel quality

Best-in-class warranty: 2 years /
2500 working hours



4M06

4M06 kWm: 20-41
RPM: 1500-1800

4M11 kWm: 43-99
RPM: 1500-2200

6M11 kWm: 106-150
RPM: 1500-2200

6M16 kWm: 180-203
RPM: 1500-2200

6M21 kWm: 276-290
RPM: 1500-2200

**THE POWERKIT VS RANGE
OFFERS 5 VARIABLE SPEED
ENGINE PLATFORMS
COVERING 20-290 KWM.**



EMERGENCY STANDBY POWER (ESP)

Emergency standby power is the maximum power available for varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine's ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year.

This includes a maximum of 25 hours per year at the ESP power rating. No Overload capability is allowed. This engine is not to be used for sustained utility paralleling applications.

PRIME RATED POWER (PRP)

Prime power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's PRP power rating during any 24 hour period.

An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hours period.

DATA CENTRE POWER (DCP)

Data Centre Power is defined as being the maximum power which a generating set is capable of delivering while supplying a variable or continuous electrical load and during unlimited run hours. Depending on the sites to supply and the availability of reliable utility, the generating set manufacturer is responsible to define what power level he is able to supply to fulfil that requirement including hardware or software or maintenance plan adaptation.

CONTINUOUS POWER (COP)

Continuous Power is the maximum power available for an unlimited period of use at a constant load factor. No overload capability is allowed.