



**PowerKit**  
DIESEL & GAS  
POWER SOLUTIONS

March 2022

| 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 BAUDOUIN

### 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.

**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

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

**6M33** kVA: 750  
RPM: 1500-1800

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

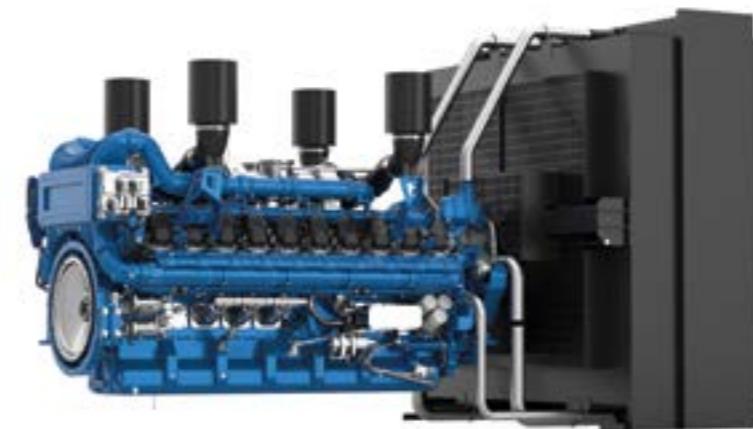
**12M33** kVA: 1150-1500  
RPM: 1500-1800

**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



**20M33**

**BAUDOIN 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**

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.

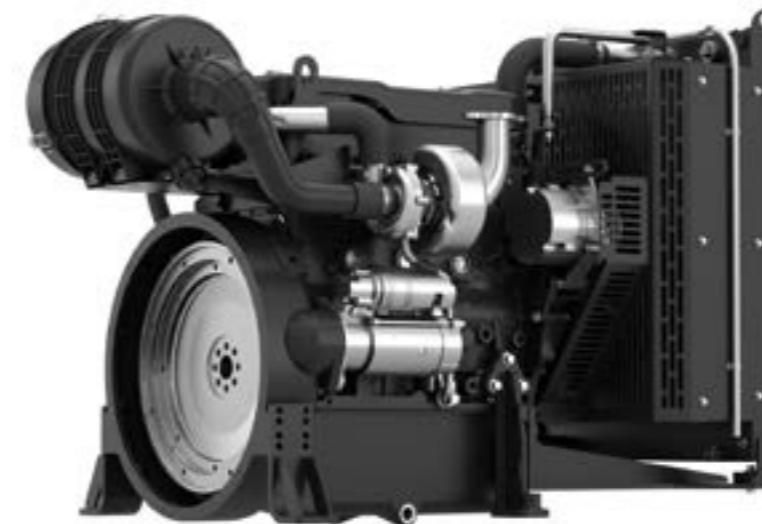
**CUSTOMER BENEFITS**

**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**  
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.