

**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 in the world.** Founded in 1946, Weichai's technical capabilities, global footprint, and a strong background in power generation has 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.

### 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.

### POWER RANGE

Our full range of PowerKit products spans 18 to 4000 kVA, 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. And with nine R&D centers across the world, we are continuously improving and tailoring our range based on local customer and regulatory requirements.

### 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.



# COP / ESP / PRP

## THE HEART OF POWERKIT

### 18-4000 kVA

The PowerKit diesel engine range covers 18-4000 kVA – a range that few engine manufacturers can match. Baudouin offers huge flexibility to customers in the vast power ratings available, as well as providing mechanical and common rail engines to suit the needs of our global customers, their environment and regulations.

#### COP

Installations with intermittent or no connection to the electrical grid rely on remote power generation equipment for their primary source of electrical energy. Baudouin PowerKit engines are the power at the center of continuous (COP) applications, operating to provide a consistent, reliable and stable source of electrical energy for installations such as remote mining sites, grid stabilisation and rural micro-grids. PowerKit products offer a highly competitive TCO, gained through excellent fuel consumption, proven durability and long service intervals. Economic dependability is why customers choose Baudouin PowerKit COP engines.



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

#### PRP

PowerKit engines are the heart of generator sets operating in remote locations, away from the utility grid or in areas where the grid is not reliable.

This is the case for telecom towers which require 24/7 power and minimal maintenance to reduce operational costs. Mining and construction also need independent supply to cover energy for their equipment, lighting systems, as well as working life onsite. Industries and municipalities also use them to support their energy demand peak for a certain period, supplementing the regular utility provider load.

#### 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.

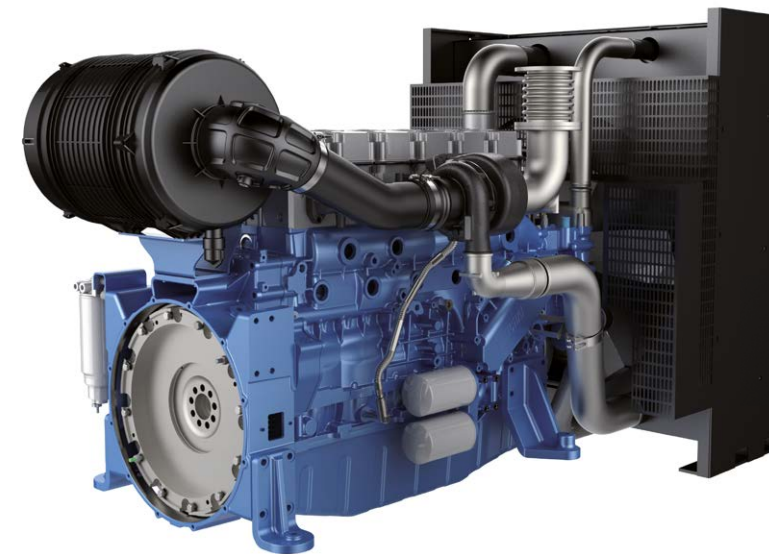
## CUSTOMER BENEFITS

**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 compliance to China Stage 3 & EPA Tier II available**



**4M06** kVA: 18-83  
RPM: 1500-1800

**4M11** kVA: 65-132  
RPM: 1500-1800

**6M11** kVA: 125-220  
RPM: 1500

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

**6M21** kVA: 325-500  
RPM: 1500-1800

**8M21** kVA: 450-660  
RPM: 1500-1800

**6M26** kVA: 400-625  
RPM: 1500-1800

**6M33** kVA: 500-825  
RPM: 1500-1800

**12M26** kVA: 750-1250  
RPM: 1500-1800

**12M33** kVA: 975-1625  
RPM: 1500-1800

**16M33** kVA: 1350-2188  
RPM: 1500-1800

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

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

**16M55** kVA: 2700-4000  
RPM: 1500-1800

The PowerKit Diesel COP | PRP | ESP Engines deliver 14 platforms producing 18 – 4000 kVA in 50 & 60 Hz.



# DCP CRITICAL POWER 350-3300 kVA

Now more than ever, saving and securing data is a core concern for businesses. All companies rely on robust and secure IT and cloud systems, with the need for efficient, secure processing ever 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 medium-sized 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

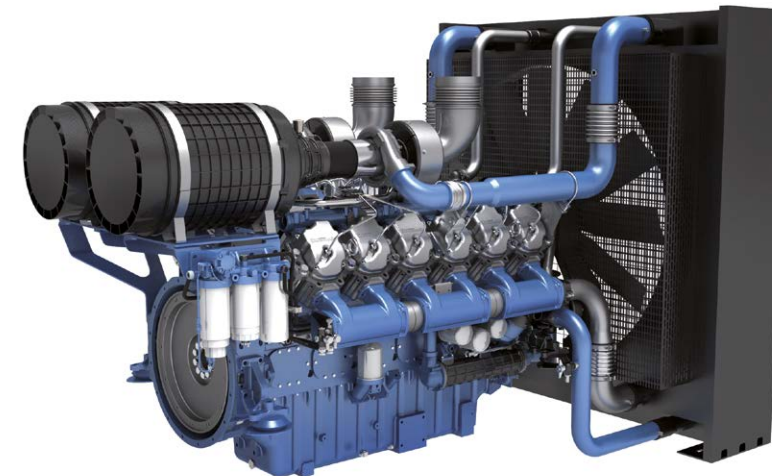
Comprehensive product range to meet a **wide range of data center** requirements

Robust and reliable for **secure power provision**

**Dual starter options** for increased redundancy

**Robust load step** and load following capability

**Market leading warranty terms:** 2 years, unlimited working hours



**6M21** kVA: 350-438  
RPM: 1500-1800

**8M21** kVA: 450-590  
RPM: 1500-1800

**6M26** kVA: 450-563  
RPM: 1500-1800

**6M33** kVA: 600-688  
RPM: 1500-1800

**12M26** kVA: 750-1000  
RPM: 1500-1800

**12M33** kVA: 1150-1250  
RPM: 1500-1800

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

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

**16M55** kVA: 2700-3300  
RPM: 1500-1800

Baudouin PowerKit DCP rating is the solution of choice for data critical emergency standby 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 benefits and reduced TCO.

**In projects that require a reduced environmental footprint, gas engines generate lower emissions than other fuel types.** GAS engines also have the ability to use waste gas created by industrial or agricultural activities, adding to their green credentials.

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

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

Baudouin Gas engines offer fuel flexibility for cogeneration which is especially beneficial for agriculture, hospitals and wastewater treatment as these applications typically use biogas.

Gas installations do not always require fuel storage onsite, which is ideal for applications such as supermarkets and industrial plants in urban areas which can connect directly to the gas network.



## CUSTOMER BENEFITS

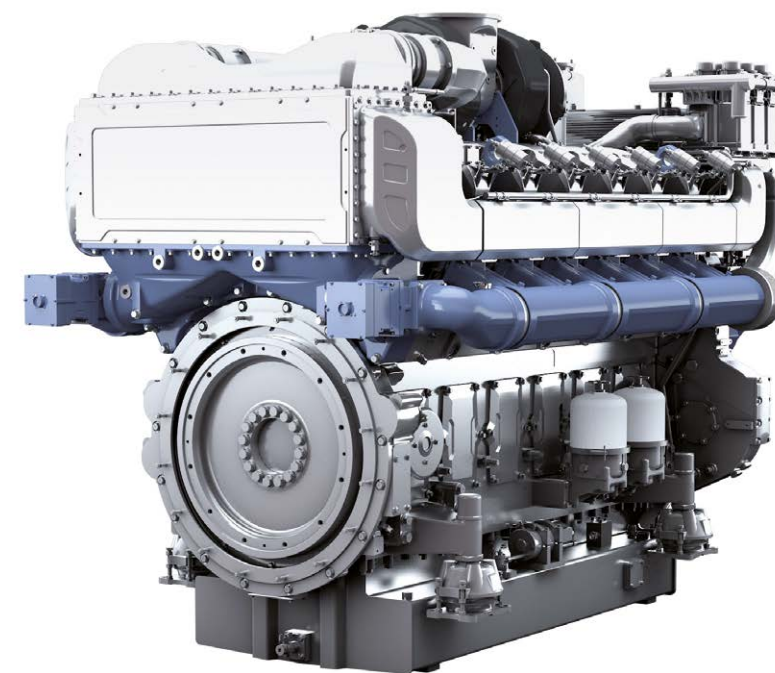
Low NOx emissions

High transient and **block load capabilities**

**Full duty cycle capability**, from prime to continuous power

**Low energy fuel** capability (landfill gas & biogas)

Electronically controlled **high efficiency engines**



**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: 850-1063  
RPM: 1500-1800

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

**12M55** kVA: up to 1750  
RPM: 1500-1800

PowerKit Gas engines are designed to answer the challenges of efficiency, total cost of ownership and low emissions power requirements.



# Variable Speed Engines POWERKIT VS 30-1492 kWm

## ROBUST ENGINES FOR INDUSTRIAL APPLICATIONS

Whether in agriculture, port RTGs, airport GPUs, or in food processing plants, variable speed engines deliver agile power to support dynamic power requirements.

Variable speed engines enable precision in applications such as irrigation systems or firefighting equipment where the flexibility of the engine allows for adjustments in the output power while optimizing fuel consumption.



The PowerKit VS range offers reliable operation with simple, mechanical fuel injection for easy maintenance and a strong endurance to varying fuel quality. The 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.

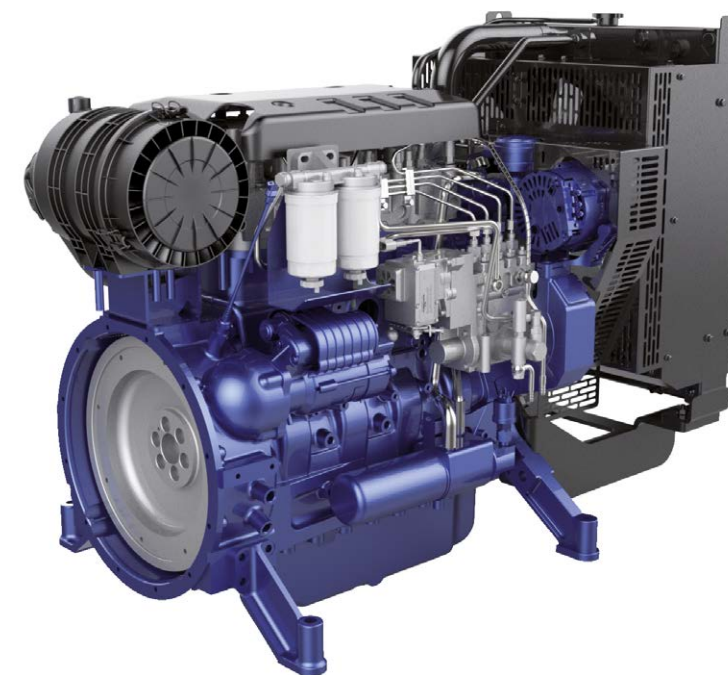
## CUSTOMER BENEFITS

1500-2200 RPM  
**Operating range**

Straightforward mechanical injection for **easy servicing**

**Strong tolerance** to varying fuel quality

Peace of mind with a best-in-class warranty of **2 years / 2500 working hours**



**4M06** kWm: 30-58  
RPM: 1500-1800

**4M11** kWm: 60-100  
RPM: 1500-2200

**6M11** kWm: 150-180  
RPM: 1500-2200

**6M16** kWm: 255  
RPM: 1500-2200

**6M21** kWm: 370  
RPM: 1500-2200

**6M33** kWm: 565  
RPM: 1500-1800

**12M33** kWm: 785-900  
RPM: 1500-1900

**16M33** kWm: 1194-1492  
RPM: 1500-1900

The PowerKit VS range offers 8 variable speed engine platforms covering 30 – 1492 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.