

# B36:45L

Inline Engine  
Natural Gas  
3.4 - 5.3 MW



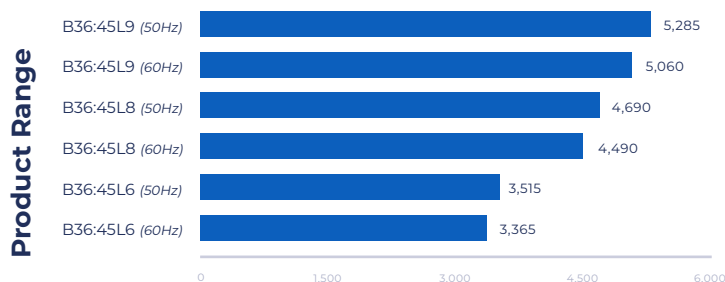
## Revolutionizing Power Generation

The **Bergen B36:45** gas engine delivers exceptional power, responsiveness, and operational reliability for demanding land-based applications. With output up to 6MW, this medium-speed lean-burn engine combines advanced combustion technology with outstanding load performance and consistent efficiency across operating ranges.

Designed using customer insights from real-world operating environments, the **B36:45** is engineered to perform reliably in all conditions. Its robust construction, proven components, and service-friendly design ensure maximum uptime while keeping life-cycle costs low.

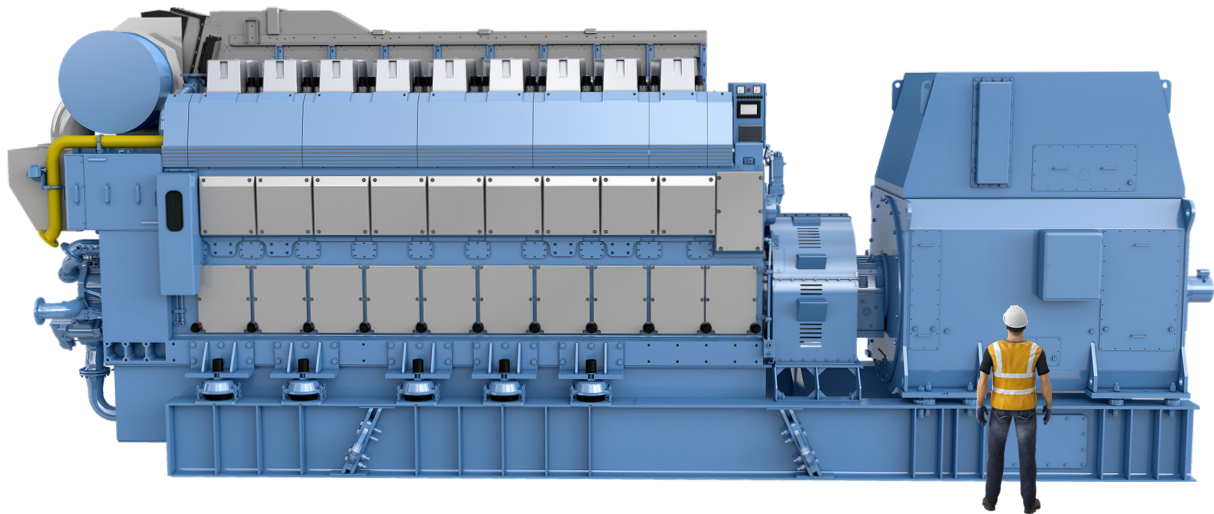
Backed by more than 70 years of Bergen engineering expertise, the **B36:45L** delivers up to 600kW per cylinder, setting new standards for power density, flexibility, and strength in modern power generation.

### Bergen's B36:45L Engine Electrical Output (kW)



### Benefits of Bergen

- Fast Delivery**  
Average lead times of just 10 months for first batch, accelerating your project and reducing time to revenue.
- Proven Reliability & World-Class Service**  
Guaranteed performance, backed by global service teams for both scheduled and unscheduled maintenance.
- Modular, Scalable Design**  
Flexibility to expand as your project grows, ensuring long-term adaptability and value.
- Exceptional Fuel Efficiency**  
Advanced combustion delivers market-leading efficiency and lower operational fuel costs.
- Low Life-Cycle Cost**  
Engineered for durability and ease of maintenance, reducing total cost of ownership.



## WEIGHT & DIMENSIONS

|                     | Engine Length<br>(mm) | Engine Width<br>(mm) | Engine Height<br>(mm) | Engine Weight<br>(dry, kg) |
|---------------------|-----------------------|----------------------|-----------------------|----------------------------|
| <b>B36:45L6 AG1</b> | 9,800                 | 2,840                | 4,190                 | 65,700                     |
| <b>B36:45L8 AG1</b> | 10,900                | 2,840                | 4,190                 | 81,700                     |
| <b>B36:45L9 AG1</b> | 11,240                | 3,045                | 4,190                 | 85,200                     |

## TECHNICAL DATA

|                                         | <b>B36:45L6 AG1</b> |        | <b>B36:45L8 AG1</b> |        | <b>B36:45L9 AG1</b> |        |
|-----------------------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| Number of Cylinders                     | 6                   |        | 8                   |        | 9                   |        |
| Cylinder Diameter (mm)                  | 360                 |        | 360                 |        | 360                 |        |
| Piston Stroke (mm)                      | 450                 |        | 450                 |        | 450                 |        |
| Hz                                      | 50                  | 60     | 50                  | 60     | 50                  | 60     |
| Engine Speed (r/min)                    | 750                 | 720    | 750                 | 720    | 750                 | 720    |
| Electrical Output (kW, 100% MCR PF 1.0) | 3,515               | 3,365  | 4,690               | 4,490  | 5,285               | 5,060  |
| Charge Air Cooler HT (kW)               | 735                 | 700    | 930                 | 885    | 1,085               | 1,035  |
| Charge Air Cooler LT (kW)               | 225                 | 215    | 310                 | 295    | 400                 | 385    |
| Lube Oil Cooler (kW)                    | 395                 | 385    | 470                 | 450    | 620                 | 595    |
| Jacket Water Cooler (kW)                | 545                 | 520    | 720                 | 690    | 790                 | 755    |
| Exhaust Mass (kg/h)                     | 19,500              | 18,700 | 26,000              | 24,800 | 29,200              | 28,800 |
| Exhaust Gas Temp (*C)                   | 345                 | 350    | 375                 | 375    | 375                 | 375    |
| Nom. El. Efficiency (% , MCR PF 1.0)    | 48                  | 48     | 48.2                | 48.2   | 48.4                | 48.4   |

### GENERAL CONDITIONS

All technical data is valid for 100% load, including two engine driven pumps. Engine power definition and fuel consumption are according to ISO 3046 and ISO 8528. Generator rating and performance in accordance with IEC 60034, power factor 1. NOx Emissions 500 mg/Nm<sup>3</sup> @ 5% O<sub>2</sub>. Reference fuel is Natural Gas with lower heating value of 36 MJ/nm<sup>3</sup>, methane number 80. Data for heat dissipation and exhaust gas are based on a tolerance of ± 5%, turbocharger air suction temp 25°C. Fast start time to be evaluated on a project specific basis. Engine must be specified accordingly and maintained in hot standby mode. For low load levels specified the engine can be operate continuous. For lower loads, certain recommendations apply.

### DISCLAIMER

Due to continuous development, some data may change. The information does not carry any contractual value.