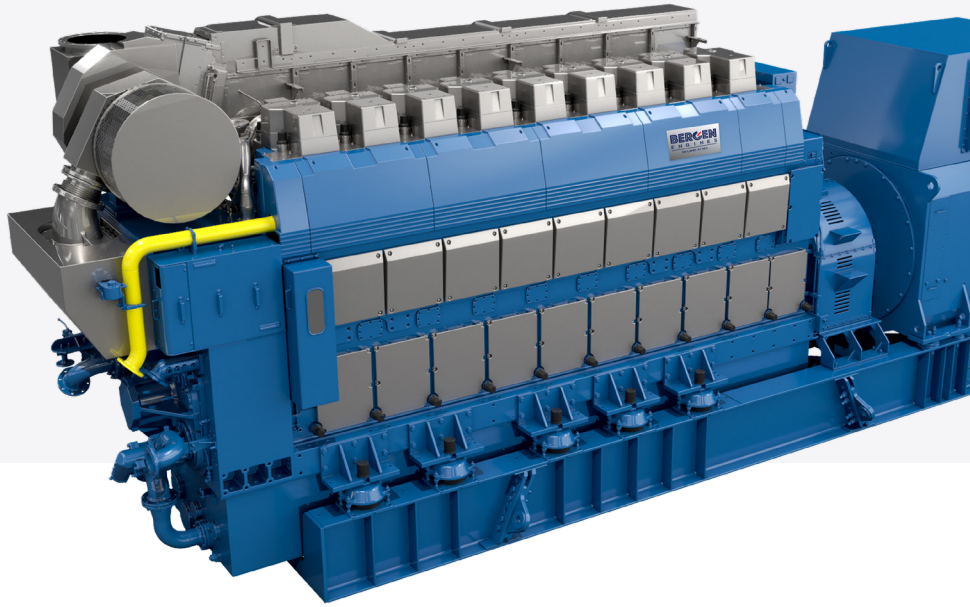


# B36:45L

Inline Engine  
Natural Gas  
3,360 - 5,285 kW



## Revolutionizing Power Generation

### Crafted with You in Mind

Through close dialogue and collaboration with our customers and expert service organization, we've gain invaluable insights that shape the development of our cutting-edge solutions.

Boasting over 70 years of expertise, Bergen's latest B36:45V engine features power capabilities reaching 600kW per cylinder. This engine is designed to deliver unrivaled performance, setting new benchmarks in efficiency while lowering life-cycle costs for our customers.

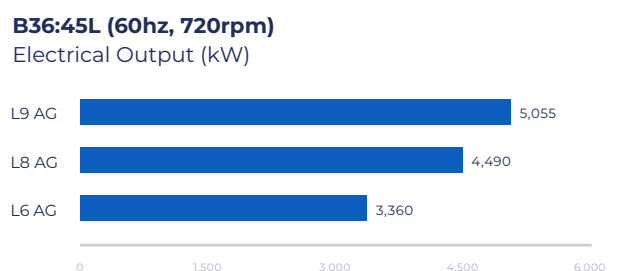
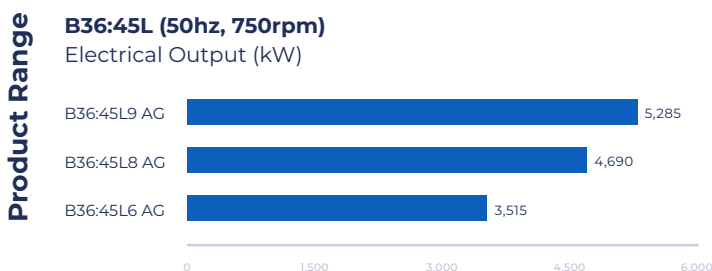
### Unlocking the Potential of Medium-Speed Engines

Bergen's B36:45 gas engine stands as a testament to innovation. Purpose-built for land-based applications, this medium-speed lean-burn unit generates up to 12MW of mechanical power. Equipped with state-of-the-art combustion technology, it ensures optimal efficiency and unparalleled load responsiveness.

Additionally, it's engineered to meet the most stringent emission standards, while maximizing electrical and heat recovery efficiency, all while guaranteeing extreme reliability.

### Key Benefits

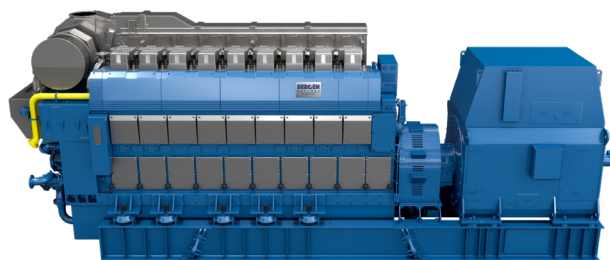
- World-Class Efficiencies
- 600kW Mechanical Output per Cylinder
- World-Class Fuel Consumption
- Exceptionally Low Emissions
- Modular Design for Seamless Scaling
- Low Lifecycle Costs
- Excellent Load Responsiveness
- Convertible to Liquid Fuel Operation with Bergen's B3X Platform





## Weight & Dimensions

	Weight (kg)	Length (mm)	Width (mm)	Height (mm)
B36:45L6 AG	65,700	9,800	2,840	4,010
B36:45L8 AG	75,500	10,920	3,045	4,100
B36:45L9 AG	85,220	11,240	3,045	4,130



## Technical Data

### 50 Hz

	B36:45L6 AG	B36:45L8 AG	B36:45L9 AG
Number of Cylinders	6	8	9
Engine Speed (r/min)	750	750	750
Electrical Output (kW)	3,515	4,690	5,285
Charge Air Cooler HT (kW)	735	730	1,085
Charge Air Cooler LT (kW)	225	310	400
Lube Oil Cooler (kW)	395	470	620
Jacket Water Cooler (kW)	545	720	790
Exhaust Mass (kg/h)	19,500	26,000	29,200
Exhaust Gas Temp. (°C)	345	375	375
Nom. El. Efficiency (%)	48	48.2	48.4

### 60 Hz

	B36:45L6 AG	B36:45L8 AG	B36:45L9 AG
Number of Cylinders	6	8	9
Engine Speed (r/min)	720	720	720
Electrical Output (kW)	3,360	4,490	5,055
Charge Air Cooler HT (kW)	700	885	1,035
Charge Air Cooler LT (kW)	215	295	385
Lube Oil Cooler (kW)	385	450	595
Jacket Water Cooler (kW)	520	590	755
Exhaust Mass (kg/h)	18,700	24,800	28,800
Exhaust Gas Temp. (°C)	350	350	375
Nom. El. Efficiency (%)	47.9	48.2	48.3

### Stroke Ratio

	B36:45L
Cylinder Diameter (mm)	360
Piston Stroke (mm)	450
Ratio	0.8

### 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/hm<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. This data does not carry any contractual value.

### Loading & Unloading

	B36:45L
Regular start time (min)	17
Fast start time (min)	3
Low load (%)	40

## Sustainability

### Future Fuels

Our customers are making long-term investments when planning their next project, yet uncertainties loom regarding future fuel availability, costs, and regulatory landscapes, including potential CO<sub>2</sub> taxes. That's why Bergen Engines' modular design prioritizes fuel flexibility, enabling customers to navigate these uncertainties with confidence.

This flexibility ensures reliability and top efficiency ratings for our engines, regardless of the fuel type you choose to operate with today, providing peace of mind and longevity to your investments.

Learn more about our ongoing research with Hydrogen, Methanol and Ammonia.

