

B36:45V

Genset
Natural Gas
6.7 - 9.3 MW



Low-Emission Power for Tomorrow's Fleet.

Developed through close collaboration with shipbuilders, operators, and service experts, the **Bergen B36:45** delivers next-generation performance for demanding marine applications. Built on Bergen's proven modular B-series platform, it offers outstanding flexibility across propulsion and auxiliary installations, with inline and V configurations enabling seamless vessel integration.

Engineered for long-term value, the **B36:45** features advanced combustion, Variable Valve Timing, Cylinder Pressure Monitoring, and wastegate turbocharging to ensure optimized efficiency, fast load response, and stable operation across all conditions. With low NO_x, CO₂, SO_x, and particulate emissions, enhanced onboard safety through double-wall piping, and Bergen's global marine support network, the **B36:45** is a clean, compliant, and future-ready solution for vessels worldwide.

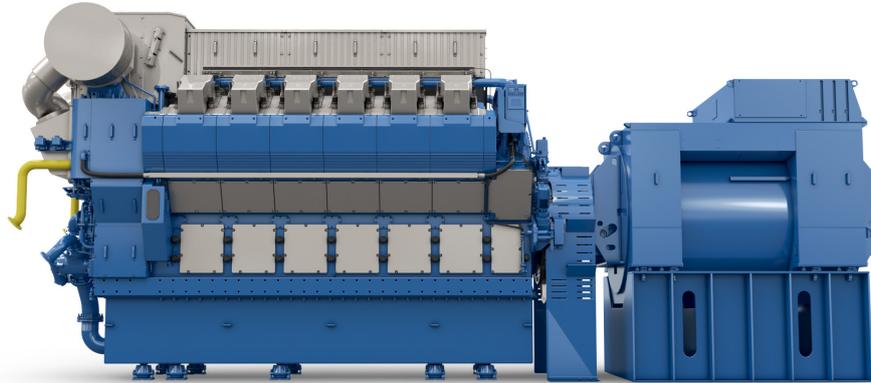
Bergen B36:45V Genset

Max. Cont Rating Altern ($h=0.97, kW_{wet}$)



Benefits of Bergen

- High Efficiency Single-fuel Design**
 Excellent fuel efficiency with lower complexity than dual-fuel engines.
- Global Service & Support**
 Local teams provide fast, reliable service worldwide; modular, service-friendly design enables easier maintenance onboard.
- Compact, High Power**
 High power per cylinder reduces the number of units, they fit efficiently in small engine rooms, and our modular design makes installation and maintenance faster and easier.
- Proven Reliability**
 European/Norwegian engineering with high-quality components ensures long-lasting, dependable operation.
- Fast Delivery**
 Average lead times of just 10-12 months accelerate projects and reduce downtime.



Weight & Dimensions

	ENGINE-ONLY				ALTERNATOR-ONLY		COMPLETE GENSET		
	Engine Length (mm)	Engine Width (mm)	Engine Height (mm)	Engine Weight (dry, kg)	Alternator Length (mm)	Alternator Weight (dry, kg)	Genset Length (mm)	Genset Weight (dry, kg)	Genset Weight (running, kg)
B36:45V12	6,900	3,140	4,540	76,925	3,900	30,000	10,800	106,925	
B36:45V16	8,400	3,660	5,010	103,920	4,500	37,600	12,900	141,520	

Technical Data

	B36:45V12		B36:45V16	
Number of Cylinders	12	12	16	16
Cylinder Diameter (mm)	360	360	360	360
Piston Stroke (mm)	450	450	450	450
Engine Speed (r/min)	720	750	720	750
Mean Piston Speed (m/s)	10.8	11.2	10.8	11.2
Max. Cont Rating (MCR, kW)	6,900	7,200	9,200	9,600
Max. Cont Rating Altern, h=0.97 (kWel)	6,695	6,985	8,925	9,310
Max. Cont Rating Altern, Cos f=0.8 (kVa)	8,370	8,730	11,155	11,640
Max. Cont Rating Altern, Cos f=0.9 (kVa)	7,440	7,760	9,915	10,345
Mean Effective Pressure (BMEP, bar)	20.92	20.97	20.92	20.97
Specific Energy Consumption (kJ/kWh)	7,370	7,370	7,350	7,350
Specific Lubricating Oil Consumption, (g/kWh)	0.3	0.3	0.3	0.3
Cooling Water Temp. Engine Outlet (°C)	90	90	90	90

GENERAL CONDITIONS

- All technical data is valid for 100% load.
- Engine power definition is according to ISO 3046-1
- Specific fuel consumption is measured on testbed according to iso 3046-1, running on Natural Gas with a lower heating value of 36 MJ/ m³n and no engine driven pumps.
- Methane no Min 70, According to AVL calculation.
- Specific lub. Oil consumption is for guidance only.
- Due to continuous development, some data may change.

DISCLAIMER

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