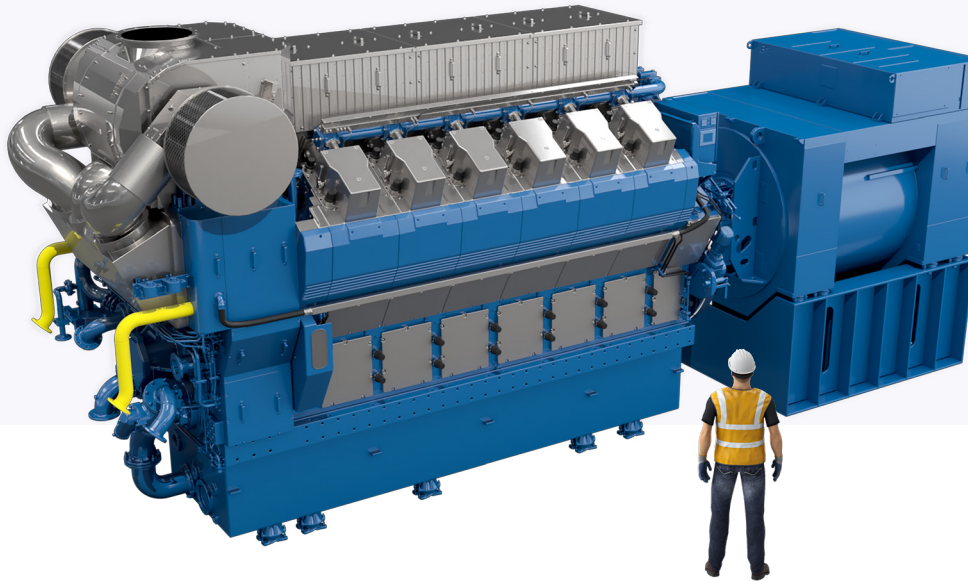


B36:45V

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.

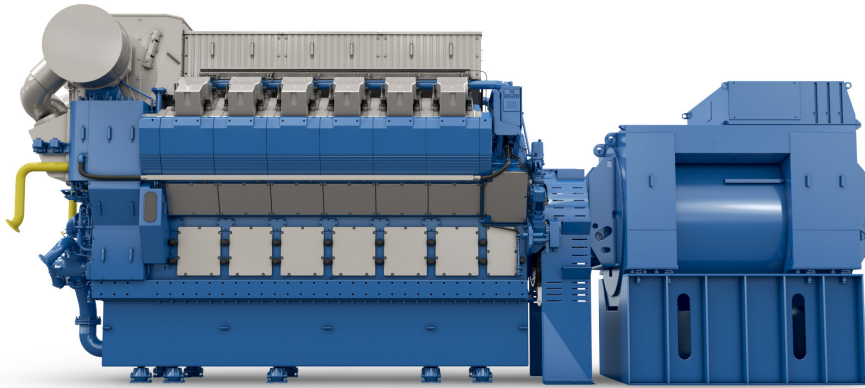
Bergen B36:45V Genset

Max. Cont Rating Altern ($h=0.97$, kWwel)



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.



WEIGHT & DIMENSIONS

	Engine Length (mm)	Engine Width (mm)	Engine Height (mm)	Engine Weight (dry, kg)	Alternator Length (mm)	Alternator Weight (dry, kg)	Total Length of Genset (mm)	Total Weight of Genset (dry, kg)
B36:45V12 A	7,160	3,280	4,590	72,900	4,090	35,000	11,250	107,900
B36:45V16 A	8,400	3,290	4,720	104,000	4,600	37,600	13,000	141,600

TECHNICAL DATA

	B36:45V12 A		B36:45V16 A	
Number of Cylinders	12		16	
Cylinder Diameter (mm)	360		360	
Piston Stroke (mm)	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)	20.9	21	20.9	21
Specific Energy Consumption (kJ/kWh)	7,370		7,350	
Specific Lubricating Oil Consumption (g/kWh)	0.4		0.4	
Cooling Water Temp. Engine Outlet (°C)	90		90	

GENERAL CONDITIONS B36:45:

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/Nm³ @ 5% O₂. Reference fuel is Natural Gas with lower heating value of 36 MJ/nm³, 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. Due to continuous development, some data may change.