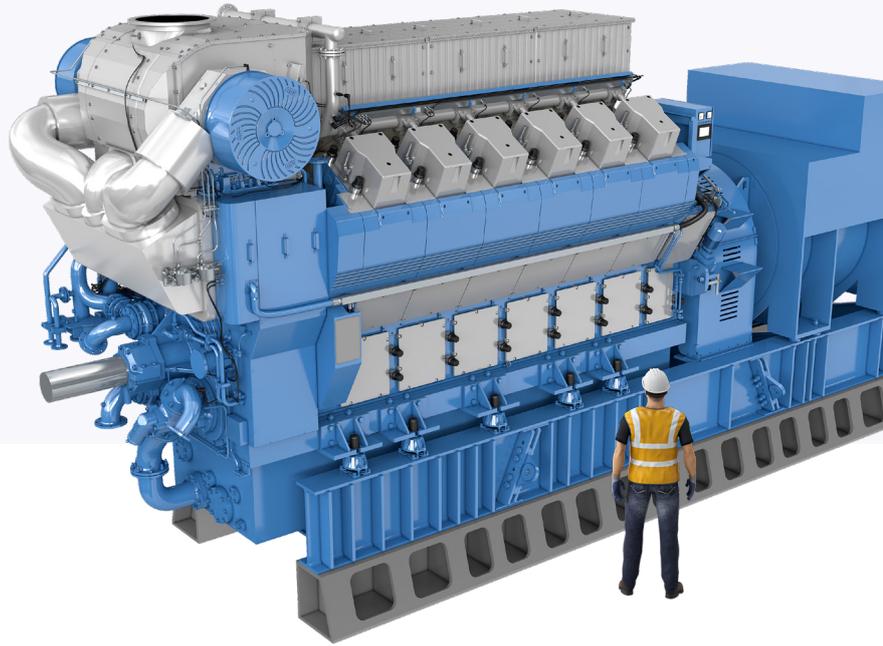


B33:45V

Genset
Liquid Fuel
7.0 MW



Power, Efficiency, and Reliability at Sea.

Developed in collaboration with shipbuilders, designers, and operators, the **Bergen B33:45V** delivers the performance and efficiency modern marine operations demand. With up to 600 kW per cylinder and a modular design, it reduces installation time, saves space, and lowers operating costs without compromising reliability. Advanced lean-burn combustion, rapid load responsiveness, and low vibration and noise ensure smooth, uninterrupted operation in both propulsion and auxiliary roles.

Meeting IMO Tier II emissions without aftertreatment and easily achieving Tier III with SCR, the **B33:45V** provides flexibility in a changing regulatory landscape. With service intervals of up to 25,000 hours and the support of Bergen's global service network, we offer long-term operational value and unmatched reliability for vessels worldwide.

Benefits of Bergen

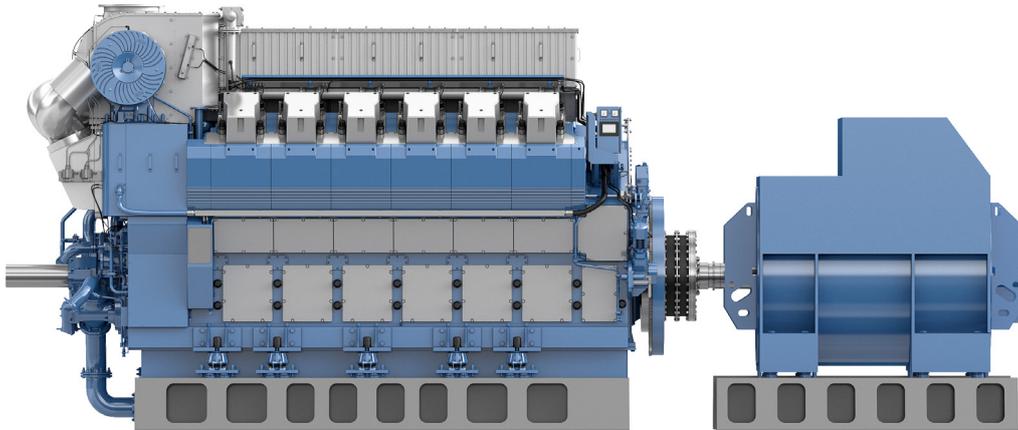
- High Efficiency Single-fuel Design**
 Excellent fuel efficiency with lower complexity than dual-fuel engines.
- Global Service & Support**
 Local teams provide fast, reliable service worldwide; modular, service-friendly design enables easier maintenance onboard.
- Compact, High Power**
 High power 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.

Bergen B33:45V Genset

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

Product Range





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)
B33:45V12	7,155	3,280	4,590	72,875	4,095	35,000	11,250	107,875	112,090

Technical Data

	B33:45V12	
Number of Cylinders	12	12
Cylinder Diameter (mm)	330	330
Piston Stroke (mm)	450	450
Engine Speed (r/min)	720	750
Mean Piston Speed (m/s)	10.8	11.2
Max. Cont Rating (MCR, kW)	7,200	7,200
Max. Cont Rating Altern, h=0.97 (kWel)	6,985	6,985
Max. Cont Rating Altern, Cos f=0.8 (kVa)	8,730	8,730
Max. Cont Rating Altern, Cos f=0.9 (kVa)	7,760	7,760
Mean Effective Pressure (BMEP, bar)	25.98	24.94
Specific Lubricating Oil Consumption, (g/kWh)	0.5	0.5
Specific Fuel Consumption (g/kWh)	173	173
Cooling Water Temp. Engine Outlet (°C)	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, using diesel-oil with a net heating value of 42.7 MJ/kg and no engine driven pumps.
- 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.