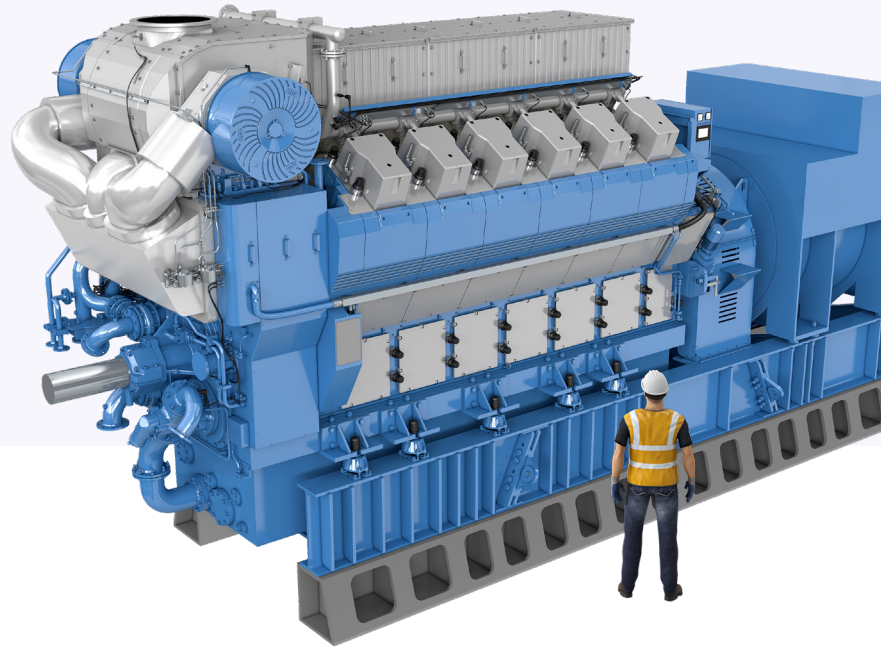


B33:45V

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.

Bergen B33:45V Genset

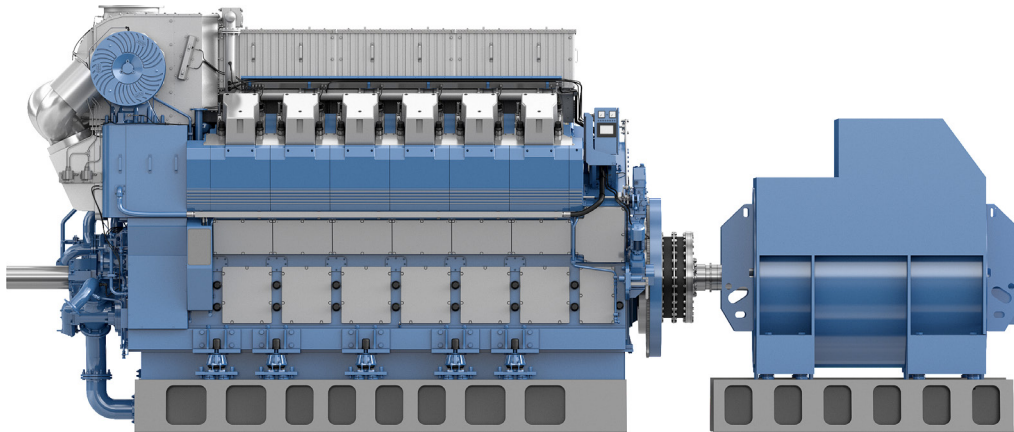
Max. Cont Rating Altern, $h=0.96$ (kWel)

Product Range



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)
B33:45V12 A	7,160	3,280	4,590	72,900	4,090	35,000	11,250	107,900

TECHNICAL DATA

	B33:45V12 A	
Number of Cylinders	12	
Cylinder Diameter (mm)	330	
Piston Stroke (mm)	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=0.96 (kW_{el})	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	
Specific Fuel Oil Consumption (SFOC , g/kWh)	from 171	
SFOC with Engine Driven Pumps (g/kWh)	from 173	
Cooling Water Temp. Engine Outlet (*C)	90	

GENERAL CONDITIONS B33:45:

All technical data is valid for 100% load, including two engine driven pumps. Engine power definition and fuel consumption are according to ISO 3046-1 and ISO 8528. Specific fuel consumption is based on using diesel-oil with a lower heating value of 42.7 MJ/kg. Generator rating and performance in accordance with IEC 60034-1, power factor 1. NOx Emissions are according to the WB 2008. Data for heat dissipation and exhaust gas are based on a tolerance of $\pm 5\%$, 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.