

B33:45L

Inline Engine
Liquid Fuel
3.2 - 4.8 MW



Revolutionizing Power Generation

Developed through close collaboration with operators and service experts, the **Bergen B33:45L** brings next-generation performance to a wide range of power applications. With over 70 years of engineering expertise behind it, this medium-speed engine delivers up to 600 kW per cylinder and is known for its design, efficiency, and reliability.

Built for long-term value, the **B33:45L** features advanced lean-burn combustion and cutting-edge load responsiveness, ensuring stable, optimized performance even under dynamic grid conditions. It meets the most stringent emission standards while maximizing both electrical and heat recovery potential.

Backed by Bergen's global support network and modular service-friendly design, the **B33:45L** is a future-ready solution that lowers life-cycle costs and delivers unmatched reliability for power producers worldwide.

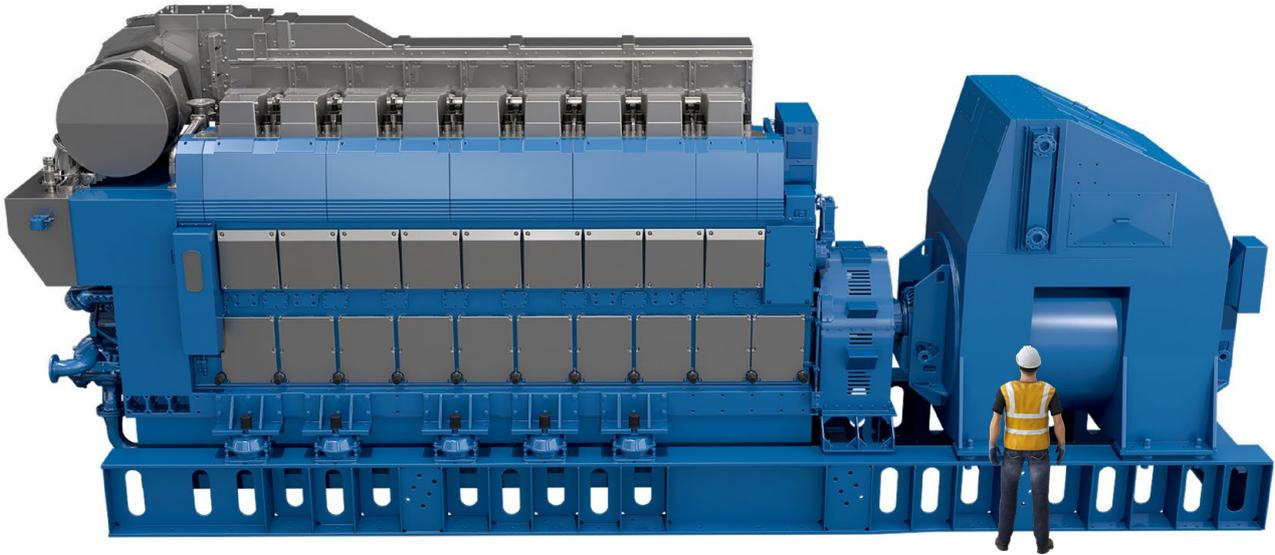
Benefits of Bergen

- Fast Delivery**
Average lead times of just 10 months for first batch, accelerating your project and reducing time to revenue.
- Proven Reliability & World-Class Service**
Guaranteed performance, backed by global service teams for both scheduled and unscheduled maintenance.
- Modular, Scalable Design**
Flexibility to expand as your project grows, ensuring long-term adaptability and value.
- Exceptional Fuel Efficiency**
Advanced combustion delivers market-leading efficiency and lower operational fuel costs.
- Low Life-Cycle Cost**
Engineered for durability and ease of maintenance, reducing total cost of ownership.

Bergen's B33:45L Engine

Electrical Output (kW)





Weight & Dimensions

	Total Length of Generator Set (mm)	Total Width of Generator Set (mm)	Total Height of Generator Set (mm)	Total Weight of Generator Set (dry, kg)
B33:45L6	9,775	2,710	4,100	65,300
B33:45L8	10,825	2,985	4,370	81,562
B33:45L9	11,240	2,985	4,390	82,395

Technical Data

	50 Hz			60 Hz		
	B33:45L6	B33:45L8	B33:45L9	B33:45L6	B33:45L8	B33:45L9
Number of Cylinders	6	8	9	6	8	9
Cylinder Diameter (mm)	330	330	330	330	330	330
Piston Stroke (mm)	450	450	450	450	450	450
Engine Speed (r/min)	750	750	750	720	720	720
EI. Output (kW)	3,160	4,220	4,750	3,155	4,215	4,750
Charge Air Cooler HT (kW)	710	1,115	1,175	710	1,135	1,185
Charge Air Cooler LT (kW)	250	290	295	250	290	295
Lube Oil Cooler (kW)	415	510	540	415	515	540
Jacket Water Cooler (kW)	370	525	675	370	530	675
Exhaust Mass (kg/h)	21,800	28,600	32,200	21,800	29,100	32,200
Exhaust Gas Temp (*C)	320	290	310	330	330	330
Nom. EI Efficiency (MCR PF 1.0)	46%	47%	47%	46%	46%	47%

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 3046-1 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.
- Data for heat dissipation and exhaust gas are based on a tolerance of $\pm 5\%$, turbocharger air suction temp 25°C.

DISCLAIMER

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