

B33:45V

V-Configuration

Liquid Fuel

6.3 - 10.6 MW

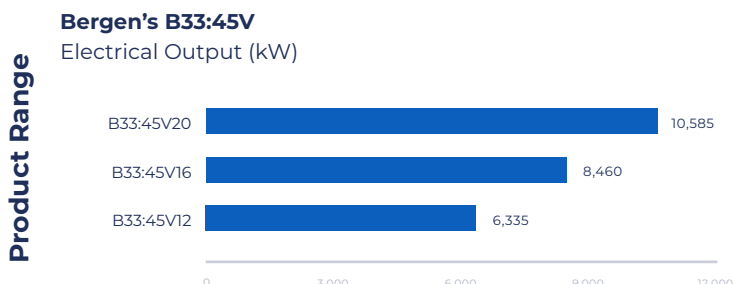


Powering Large-Scale Plants with Efficiency

Developed in partnership with operators and service experts, the **Bergen B33:45V** delivers robust, reliable performance for large-scale, medium-speed power generation. Building on over 70 years of engineering heritage, this engine range delivers from 6.3 MW up to 10.6 MW per unit, making it ideal for installations that demand high output and operational efficiency.

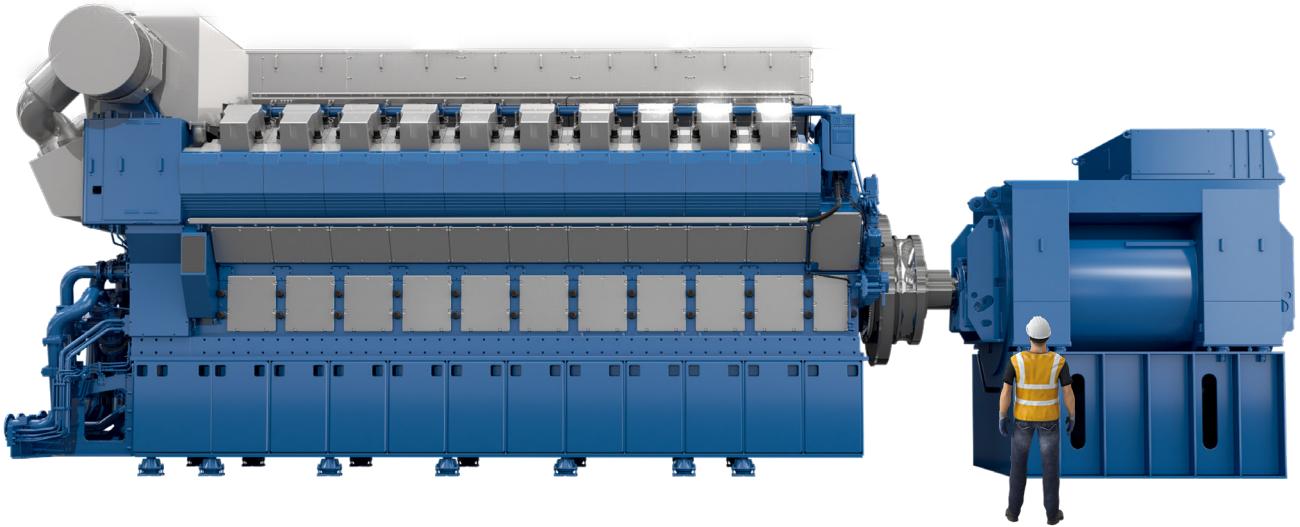
Designed with a compact V-configuration, the **B33:45V** delivers maximum power in a smaller footprint, making it well-suited for space-constrained facilities. Its advanced lean-burn combustion technology ensures optimal efficiency across varying load profiles, providing stable, responsive performance for both baseload and peaking applications.

Engineered to meet the strictest emission standards while maximizing electrical and thermal efficiency, the **B33:45V** delivers long-term reliability and lower lifecycle costs. Supported by Bergen's modular design, it's a trusted solution for powering critical infrastructure and future-focused energy plants.



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.



WEIGHT & DIMENSIONS

	Engine Length (mm)	Engine Width (mm)	Engine Height (mm)	Engine Weight (dry, kg)
B33:45V12 AG1	11,600	3,280	4,570	107,000
B33:45V16 AG1	13,000	3,290	4,720	142,000
B33:45V20 AG1	14,410	3,660	4,950	160,600

TECHNICAL DATA

	B33:45V12 AG1	B33:45V16 AG1	B33:45V20 AG1
Number of Cylinders	12	16	20
Cylinder Diameter (mm)	330	330	330
Piston Stroke (mm)	450	450	450
Engine Speed (r/min)	720 - 750	720 - 750	720 - 750
Electrical Output (kW, 100% MCR PF 1.0)	6,335	8,460	10,585
Charge Air Cooler HT (kW)	1,310	2,215	2,765
Charge Air Cooler LT (kW)	590	570	630
Lube Oil Cooler (kW)	735	1,015	1,140
Jacket Water Cooler (kW)	985	1,040	1,395
Exhaust Mass (kg/h)	42,200	57,200	71,600
Exhaust Gas Temp (*C)	325	345	330
Nom. El. Efficiency (% , MCR PF 1.0)	47.1	46.9	46.9

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. 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.

DISCLAIMER

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