

# B33:45V

V-Configuration

Liquid Fuel

6.3 - 10.6 MW



## Powering Large-Scale Plants with Efficiency

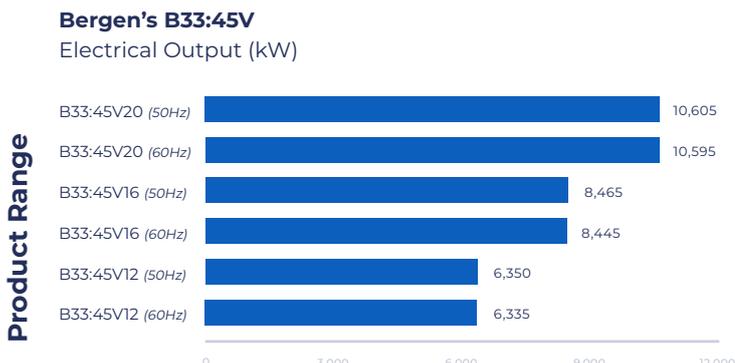
Developed in partnership with operators and service experts, the **Bergen B33:45V** delivers robust, reliable performance for large-scale, medium-speed power generation. Building on over 70 years of engineering heritage, this engine range delivers from 6.3 MW up to 10.6 MW per unit, making it ideal for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

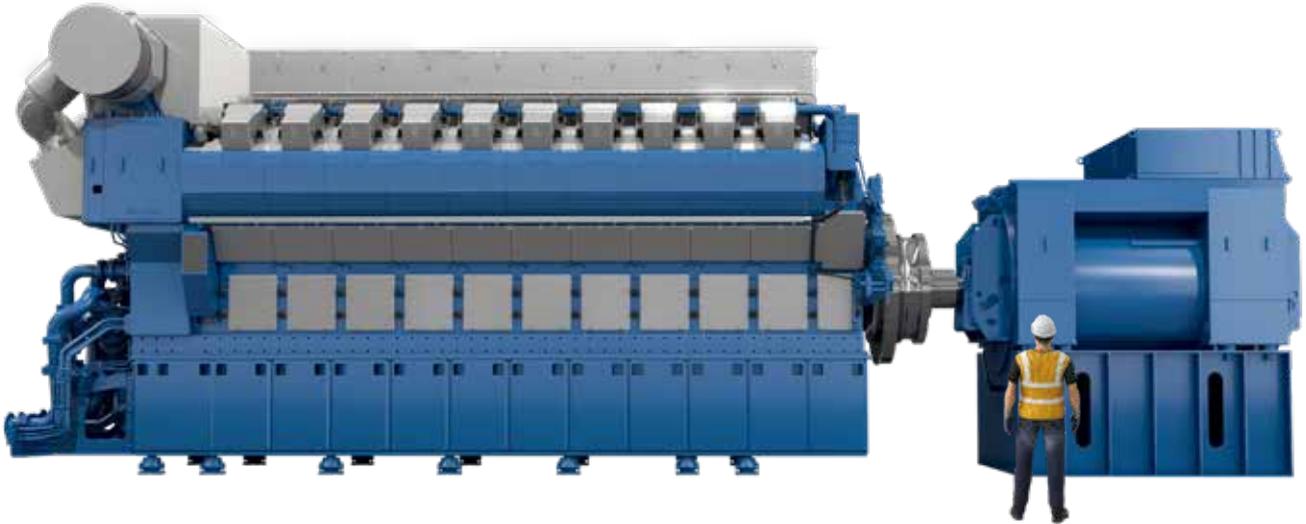
Designed with a compact V-configuration, the **B33:45V** delivers maximum power in a smaller footprint, making it well-suited for space-constrained facilities. Its advanced lean-burn combustion technology ensures optimal efficiency across varying load profiles, providing stable, responsive performance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

	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)
B33:45V12 A1	11,600	3,280	4,570	107,000
B33:45V16 A1	13,165	3,750	4,750	144,500
B33:45V20 A1	14,410	3,660	4,950	160,600

## Technical Data

	50 Hz			60 Hz		
	B33:45V12	B33:45V16	B33:45V20	B33:45V12	B33:45V16	B33:45V20
Number of Cylinders	12	16	20	12	16	20
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
<b>Electrical Output (kW)</b>	<b>6,350</b>	<b>8,445</b>	<b>10,605</b>	<b>6,335</b>	<b>8,465</b>	<b>10,595</b>
Charge Air Cooler HT (kW)	1,310	2,215	2,765	1,310	2,240	2,775
Charge Air Cooler LT (kW)	590	570	630	590	575	630
Lube Oil Cooler (kW)	735	1,015	1,140	735	1,020	1,140
Jacket Water Cooler (kW)	985	1,040	1,395	985	1,050	1,400
Exhaust Mass (kg/h)	42,200	57,200	71,600	42,200	58,200	71,600
Exhaust Gas Temp (*C)	325	345	330	325	330	330
Nom. EI Efficiency (MCR PF 1.0)	47%	47%	47%	47%	47%	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 ± 5%, turbocharger air suction temp 25°C.

### DISCLAIMER

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