

# B36:45V

V-Configuration

Natural Gas

6.8 - 11.8 MW



## High-Efficiency Gas Power, Built for Scale.

Designed in collaboration with customers and power experts, the **Bergen B36:45V** gas engine brings high-output, low-emission performance to large-scale energy projects. With an output range of 6.8 to 11.8 MW, it's ideal for installations requiring efficient, reliable, and scalable generation.

Built on Bergen's advanced lean-burn technology, the **B36:45V** delivers outstanding electrical and thermal efficiency while maintaining ultra-low NOx and CO emissions. Its modular V-configuration provides a compact footprint with maximum power density—perfect for utility-scale plants and CHP applications where space and output are critical.

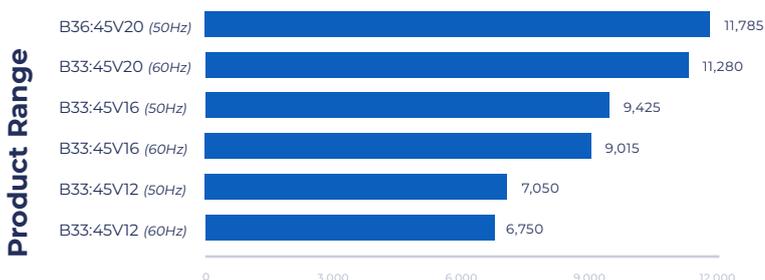
With robust design, 600kW per cylinder output, and precision load responsiveness, the **B36:45V** ensures stable, economical operation under demanding grid conditions. Backed by Bergen's global support network and 70+ years of engineering experience, it's a trusted choice for efficient, future-ready power generation around the world.

### Benefits of Bergen

- Fast Delivery**  
 Accelerated lead times help you get to market faster—keeping your project on schedule 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 B36:45V

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)
B36:45V12 AG1	11,600	3,280	4,570	107,000
B36:45V16 AG1	13,165	3,750	4,750	144,500
B36:45V20 AG1	14,200	3,750	4,750	155,000

## Technical Data

	50 Hz			60 Hz		
	B36:45V12 AG1	B36:45V16 AG1	B36:45V20 AG1	B36:45V12 AG1	B36:45V16 AG1	B36:45V20 AG1
Number of Cylinders	12	16	20	12	16	20
Cylinder Diameter (mm)	360	360	360	360	360	360
Piston Stroke (mm)	450	450	450	450	450	450
Engine Speed (r/min)	750	750	750	720	720	720
<b>Electrical Output (kW, 100% MCR PF 1.0)</b>	<b>7,050</b>	<b>9,425</b>	<b>11,785</b>	<b>6,750</b>	<b>9,015</b>	<b>11,280</b>
Charge Air Cooler HT (kW)	1,630	2,205	2,575	1,470	2,095	2,460
Charge Air Cooler LT (kW)	420	500	460	410	475	445
Lube Oil Cooler (kW)	765	855	1,065	730	820	1,025
Jacket Water Cooler (kW)	990	1,355	1,685	950	1,300	1,620
Exhaust Mass (kg/h)	39,400	53,000	66,300	37,700	50,800	63,500
Exhaust Gas Temp (°C)	375	370	370	365	370	375
Nom. EI Efficiency (MCR PF 1.0)	49%	49%	49%	48%	49%	49%

### 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 and ISO 8528.
- Generator rating and performance in accordance with IEC 60034, power factor 1.
- NOx Emissions 500 mg/Nm<sup>3</sup> @ 5% O<sub>2</sub>.
- Reference fuel is Natural Gas with lower heating value of 36 MJ/nm<sup>3</sup>, methane number 80.
- 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.