

# B36:45V

V-Configuration

Natural Gas

6.8 - 11.8 MW



## Revolutionizing Power Generation

The **Bergen B36:45** gas engine delivers exceptional power, responsiveness, and operational reliability for demanding land-based applications. With mechanical output up to 12MW, this medium-speed lean-burn engine combines advanced combustion technology with outstanding load performance and consistent efficiency across operating ranges.

Designed using customer insights from real-world operating environments, the **B36:45** is engineered to perform reliably in all conditions. Its robust construction, proven components, and service-friendly design ensure maximum uptime while keeping life-cycle costs low.

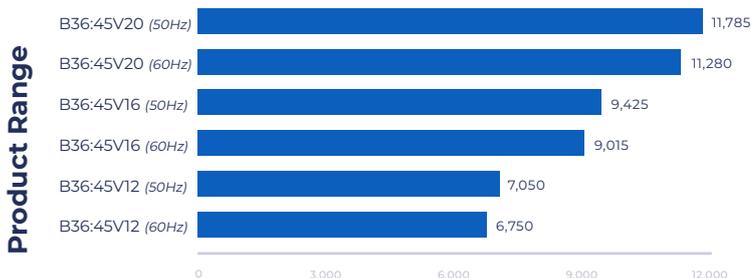
Backed by more than 70 years of Bergen engineering expertise, the **B36:45V** delivers up to 600kW per cylinder, setting new standards for power density, flexibility, and strength in modern power generation.

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

## Technical Data

	50 Hz			60 Hz		
	B36:45V12	B36:45V16	B36:45V20	B36:45V12	B36:45V16	B36:45V20
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>EI. Output (kW)</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)	48.5	48.7	49	48.4	48.6	48.9

### 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 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.
- 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.