

B36:45V

V-Configuration

Natural Gas

6.8 - 11.8 MW



Revolutionizing Power Generation

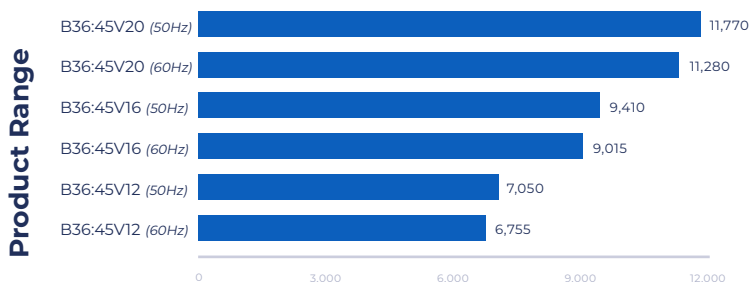
The **Bergen B36:45** gas engine delivers exceptional power, responsiveness, and operational reliability for demanding land-based applications. With mechanical output up to 12MW, this medium-speed lean-burn engine combines advanced combustion technology with outstanding load performance and consistent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

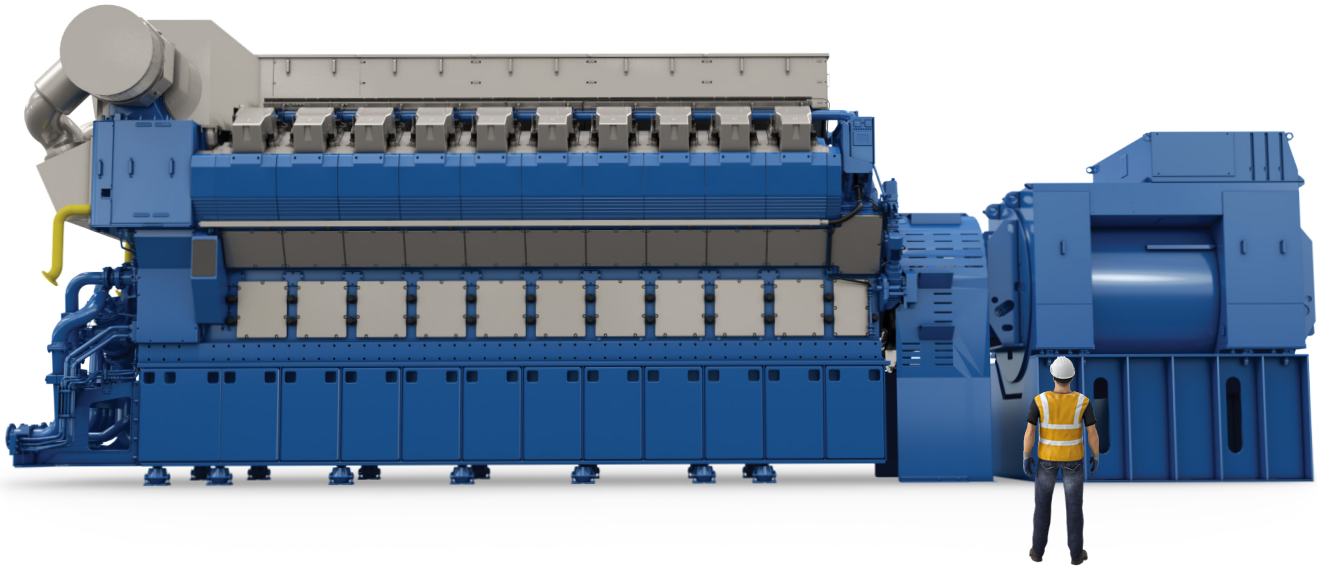
Bergen's B36:45V Engine

Electrical Output (kW)



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)
B36:45V12 AG1	11,600	3,280	4,570	107,000
B36:45V16 AG1	13,000	3,290	4,720	142,000
B36:45V20 AG1	14,200	3,750	4,740	155,000

TECHNICAL DATA

	B36:45V12 AG1		B36:45V16 AG1		B36:45V20 AG1	
Number of Cylinders	12		16		20	
Cylinder Diameter (mm)	360		360		360	
Piston Stroke (mm)	450		450		450	
Hz	50	60	50	60	50	60
Engine Speed (r/min)	750	720	750	720	750	720
Electrical Output (kW, 100% MCR PF 1.0)	7,050	6,755	9,410	9,015	11,770	11,280
Charge Air Cooler HT (kW)	1,630	1,470	2,205	2,095	2,600	2,480
Charge Air Cooler LT (kW)	420	410	500	475	655	635
Lube Oil Cooler (kW)	765	730	855	820	1,065	1,025
Jacket Water Cooler (kW)	990	950	1,355	1,300	1,685	1,620
Exhaust Mass (kg/h)	39,400	37,700	53,000	50,800	66,300	63,500
Exhaust Gas Temp (*C)	375	365	370	370	355	355
Nom. El. Efficiency (% , MCR PF 1.0)	48.5	48.5	48.7	48.7	48.9	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/Nm3 @ 5% O2. Reference fuel is Natural Gas with lower heating value of 36 MJ/nm3, 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.