

# SPECIFICATIONS



## 1.5 MW 2022 New MWM TCG 2020-V16K Natural Gas Generator Set

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## Description

This natural gas generator set represents cutting-edge distributed generation technology optimized for continuous baseload operation and combined heat and power (CHP) applications. Powered by a 16-cylinder, four-stroke turbocharged gas engine with advanced lean-burn combustion, this unit delivers exceptional electrical efficiency and robust thermal energy recovery capability. With a 2022 manufacture date and factory-new condition, this generator set incorporates the latest engineering advancements in emissions control, digital engine management, and predictive maintenance systems—offering immediate deployment readiness with comprehensive warranty coverage and decades of reliable service life ahead.

Rated at 1,500 kW electrical output at 1,500 RPM (50 Hz) or 1,800 RPM (60 Hz), the unit achieves electrical efficiency of approximately 43-44% with total CHP efficiency exceeding 87% when heat recovery systems are fully utilized. Output voltage is configurable from 400V to 11kV through integrated step-up transformers. Exhaust gas temperatures of 420-450°C combined with jacket water and oil cooler circuits enable comprehensive thermal energy recovery for hot water, low-pressure steam, absorption chilling, or industrial process heating.

### KEY FEATURES:

- 16-cylinder turbocharged and intercooled lean-burn gas engine
- Ultra-low emissions: <250 mg/Nm<sup>3</sup> NOx (catalyst-ready for <100 mg/Nm<sup>3</sup>)
- Remote monitoring with cloud-based diagnostics and SCADA integration

### ADVANTAGES

- Dual-revenue generation: simultaneous electricity and usable thermal energy production
- Grid-support capable with fast load response and frequency stabilization

**Ideal Applications:** District heating systems, hospitals, universities, industrial manufacturing facilities, food processing plants, greenhouses, hotels, data centers, wastewater treatment plants, and biogas-to-energy projects.

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<b>Manufacturer</b>	MWM
<b>Model</b>	TCG 2020V16K
<b>Year</b>	2022
<b>Condition</b>	New
<b>Location</b>	Asia
<b>Qty Available</b>	2 Units
<b>Category</b>	Natural Gas Generators
<b>Subcategory</b>	1 – 9 MW
<b>Stock Number</b>	USP010970
<b>Wattage</b>	1.5 MW
<b>Hours</b>	Zero
<b>Frequency</b>	50 Hz
<b>Fuel Type</b>	Natural Gas
<b>Voltage</b>	415 Volts
<b>Balance of Plant Available? (BOP)</b>	-

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