



**MWM TCG 3016 V16S
970 KW Natural Gas Generator Set
Proposal**

18 Gensets Available NOW

60Hz Natural Gas Power Generation Solution

708-289-8162

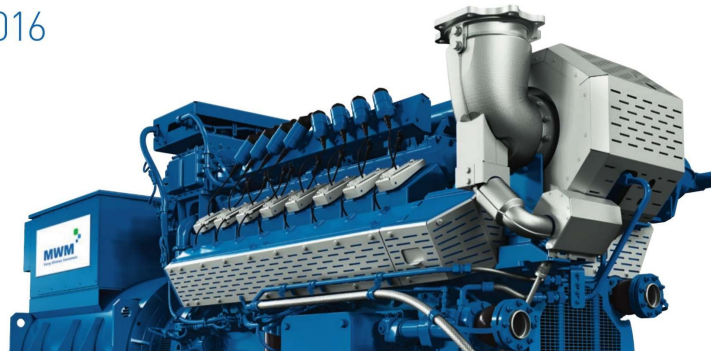
HONFIN ENERGY ASSETS

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Product Overview – MWM TCG 3016

TCG 3016

TCG 3016



MWM TCG 3016 V16 – Robust. Efficient. Digital.

The MWM TCG 3016 V16 S is a member of the new generation of MWM gas engines, perfectly tailored to the challenges of Industry 4.0 and the changed framework conditions of a dynamic energy market. State-of-the-art components and the TPEM (Total Plant & Energy Management) control ensure maximum reliability and availability. Improved oil management and optimized cylinder and turbochargers set new standards in terms of durability and reliability.

MWM brings 150 years of experience in gas engine technology and energy generation. Since 2011, MWM has been part of the Caterpillar Inc. network, providing access to international expertise and resources, with thousands of highly efficient and reliable plants installed around the globe. Optional support for up to 20% hydrogen.

Key Design Features

<p>Outstanding Price-Performance Low investment and service costs while sustaining high electrical efficiency. Fast payback through lower CAPEX.</p>	<p>Optimized Lube Oil Management Lowest-in-class lube oil consumption of 0.1 g/kWh. Longer oil change intervals. Integrated oil and refill tanks.</p>
<p>Flanged Genset Concept Vibration-decoupled base frame for lower installation costs and reliable operation. Greater integrated lube oil volume.</p>	<p>Improved Turbo Charger Longer maintenance intervals and a wider suction air temperature window for deployment across a broad range of site conditions.</p>

Higher Availability & Longer Life

Optimized combustion through evenly charged cylinders, lower peak pressure fluctuations, and a smoothly running, low-vibration genset.

TPEM Digital Control System

Easy human-machine interface with fully integrated remote access. Expanded scope including synchronization, power switch and plant control.

Technical Data – 60Hz 970 KW Configuration

Engine Type	TCG 3016 V16 S
Frequency	60 Hz
Electrical Output	970 kW
Fuel Type	Natural Gas
Speed	1,800 RPM
Bore / Stroke	132 / 160 mm
Displacement	35.0 dm ³
Length	4,200 mm
Width	1,780 mm
Height	2,150 mm
Dry Weight	8,560 kg
Electrical Efficiency	41.5%
Thermal Efficiency	46.6%
Total Efficiency	88.1%
Thermal Output	1,123 kW
Nox Emissions	≤ 500 mg/Nm ³

Global Support & Service Network

MWM is part of Caterpillar Energy Solutions GmbH, a wholly owned Caterpillar company since 2011. The MWM brand continues to operate as Caterpillar’s global gas engine center of excellence headquartered in Mannheim, Germany. MWM gas generator sets are sold worldwide through authorized MWM distributors, direct sales channels, and the broader Caterpillar support ecosystem.

MWM customers benefit from:

- Global parts availability
- Factory-trained technical support
- Worldwide field service capabilities
- Remote monitoring and diagnostics
- Long-term lifecycle support
- Access to Caterpillar Energy Solutions resources and infrastructure

Configuration Summary

Parameter	60 Hz – 480 V (Low Voltage)	60 Hz – 13.8 kV (Medium Voltage)
Genset Model	TM970XG	TM970XG
Engine	MWM TCG 3016 V16 S (Germany)	MWM TCG 3016 V16 S (Germany)
Continuous Power	970 kW / 970 kVA	970 kW / 970 kVA
Frequency / Speed	60 Hz, 3-phase, PF 1.0 — 1,800 rpm	60 Hz, 3-phase, PF 1.0 — 1,800 rpm
Voltage	480 V	13.8 kV
Alternator	Leroy-Somer LSA50.2M6 (China)	Leroy-Somer LSA52.2ZL65 (China)
Control System / Breaker	3016 HAS / ABB	3016 HAS / ABB

Output voltage is configured before shipping. All units can be 480V or 13.8 kV or any combination.

Noise output is industrial mufflers at ~85db. Optional residential noise attenuation to ~65db is an added cost option.

Terms: 30% down, balance upon ready to ship notice. Buyer responsible for shipping and insurance from Port of Hong Kong to desired destination.

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Confidential

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