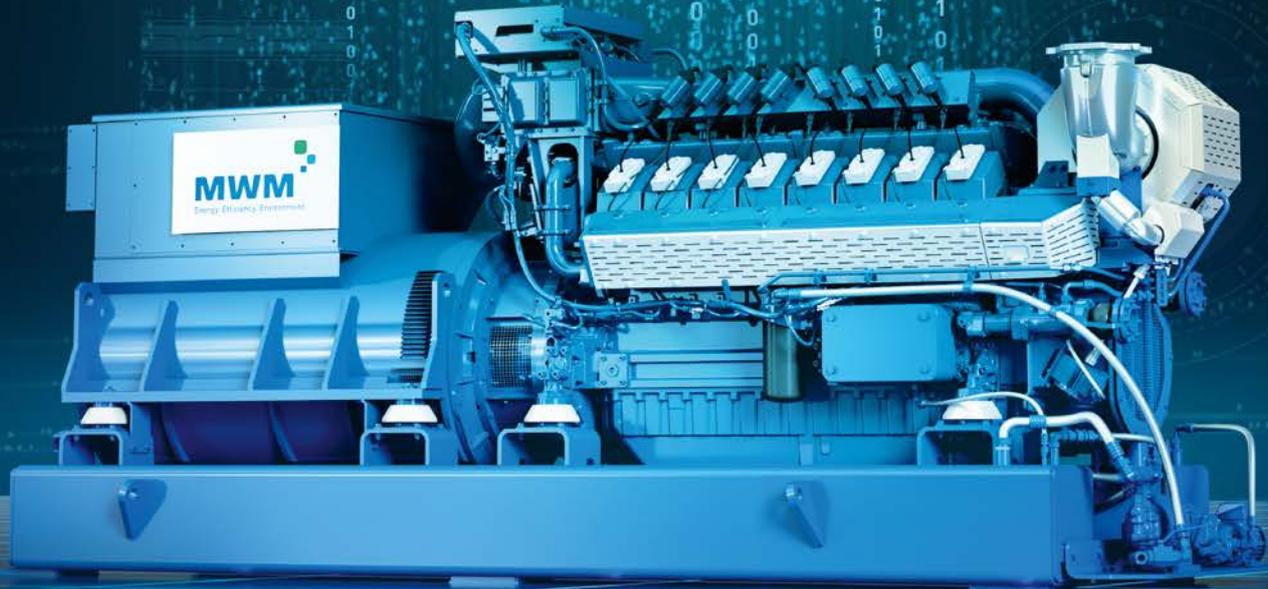


MWM DIGITALPOWER

MWM
Energy. Efficiency. Environment.



TCG 3016

V16 S

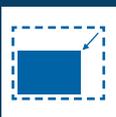
**One Megawatt.
Robust. Efficient. Digital.**



Outstanding Price Performance
due to high electrical efficiency,
low investment and service costs



Lower lube oil consumption
lead to lower operating cost



The most compact design in its class
Low plant investment costs, due to highest
power density and space saving design



Improved durability
ensures higher reliability and
availability at various site conditions

TCG 3016. NEW on the block.

■ Outstanding Price-Performance

- ✓ Low investment and service costs while still sustaining high electrical efficiency
- ✓ Fast payback period of power plant due to lower investment costs

■ Optimized lube oil management

- ✓ Lowest-in-class lube oil consumption: 0.1 g/kWh_{el}
- ✓ Longer oil change intervals
- ✓ Integrated oil and refill tanks

■ Flanged genset concept

- ✓ Vibration-decoupled base frame for lower installation costs and reliable operation
- ✓ Greater integrated lube oil volume
- ✓ Easy oil management

■ TPEM – the new control system

- ✓ Easy human-machine interface
- ✓ Fully integrated remote access
- ✓ Expanded scope, e.g. synchronization, power switch and plant control

■ Improved turbo charger for a wide field of deployment

- ✓ Longer maintenance intervall
- ✓ Wider suction air temperature window

■ Higher availability and longer useful life

- ✓ Optimized combustion through evenly charged cylinders
- ✓ Lower peak pressure fluctuations
- ✓ Smoothly running, low-vibrating genset

■ Highest power density in it's power node

- ✓ Highest power density and smallest footprint
- ✓ Low power plant investment costs

Technical data 50 Hz

Engine type		TCG 3016 V16 S		
Bore/stroke	mm	132/160	in	5.2/6.3
Displacement	dm ³	35.0	cu in	2,135.8
Speed	min ⁻¹	1,500	min ⁻¹	1,500
Mean piston speed	m/s	8.0	ft/s	26.2
Length ¹⁾	mm	4,200	in	165
Width ¹⁾	mm	1,780	in	70
Height ¹⁾	mm	2,150	in	85
Dry weight genset	kg	8,560	lb	17,791

Natural gas applications 50 Hz

NO_x ≤ 500 mg/Nm³ ²⁾

Engine type		TCG 3016 V16 S		
Electrical power ³⁾	kW	1,000	kW	1,000
Mean effective pressure	bar	23.5	psi	340.8
Thermal output ⁴⁾	±8% kW	1,139	MBTU/hr	3,889
Electrical efficiency ³⁾	%	41.0	%	41.0
Thermal efficiency ³⁾	%	47.0	%	47.0
Total efficiency ³⁾	%	88.0	%	88.0

1) Transport dimensions for gensets, components set up separately must be taken into consideration.

2) NO_x ≤ 500 mg/Nm³; exhaust gas dry at 5% O₂.

3) According to ISO 3046-1 at U = 0.4 kV, cosphi = 1.0 for 50 Hz, a minimum methane number of MN 80 for natural gas.

4) Exhaust gas cooled to 120 °C for natural gas.

Data for special gases and dual gas operation on request.

The values given in these data sheets are for information only and are not binding. The information given in the offer is authoritative.