

# MWM TCG 2032 50Hz

## Performance Data Sheet

### High Availability, Low Installation Costs



#### More profit

The optimised maintenance concept with cylinder units simplifies accessibility and, along with the reduction of the number of different parts, minimises the time required for maintenance. This can save you up to 20% in service costs. At the same time, you profit from up to 30% less lubricating oil consumption compared to other engines.

#### Longer runtimes

Thanks to the extended service intervals, the TCG 2032 runs up to 200 hours longer per annum than comparable products. The major overhaul is scheduled after 80,000 operating hours.

#### Greater reliability

The particle-free combustion, with chamber plugs, extends the service intervals for the exhaust gas heat exchanger and reduces service costs compared to other combustion methods. Major components such as pistons, conrods, spark plugs and cylinder heads have been improved to withstand the greater power output and to deliver increased electrical efficiency.

#### Optimum efficiency

The interaction of all components has been improved even further. All components relevant for efficiency and power output are monitored by the TEM (Total Electronic Management). The new, upgraded wastegate in particular ensures a more efficient operation with changing conditions. This is also the case when the gas composition is fluctuating – thanks to fast response times due to the temperature monitoring for each cylinder. TEM not only controls the engine... but the entire system... including heat extraction.

#### Full turbo power

The high-pressure turbocharger A140, with an improved wastegate, allows operation with a broader air intake temperature range and up to higher altitudes.

#### Natural Gas applications - NO<sub>x</sub> ≤ 500 mg/Nm<sup>3</sup>\*

Engine type	TCG 2032 V12 50Hz	TCG 2032 V16 50Hz	TCG 2032B V16 50Hz
Electrical output	3333kW	4300kW	4500kW
Thermal output ± 8%	3206kW	4164kW	4176kW
Electrical efficiency	44.1%	44.1%	44.6%
Thermal efficiency	42.4%	42.7%	41.4%

#### Biogas | Landfill Gas | Sewage Gas applications - NO<sub>x</sub> ≤ 500 mg/Nm<sup>3</sup>\*

Engine type	TCG 2032 V16 50Hz
Electrical output	3770kW
Thermal output ± 8%	3460kW
Electrical efficiency	42.9%
Thermal efficiency	39.4%

\*5% O<sub>2</sub> and dry exhaust gases