



MWM TCG 2016 50Hz

Performance Data Sheet

Efficiency Across the Board



More profit

The TCG 2016 is highly efficient thanks to its optimised inlet duct, combustion chamber and spark plugs. You can save as much as 15% per annum on fuel costs – and increase your plant's profitability.

Less overall costs

With its optimised engine components, the TCG 2016 requires up to 50% less lubricating oil than other similar gensets. In terms of efficiency that means long-term savings.

Lower installation costs

Thanks to its smaller dimensions (width x length), the TCG 2016 takes up to 50% less space than comparable systems, reducing time and installation costs.

Optimum control concept

TEM (Total Electronic Management) controls not just the engine... but the entire system, including the heat supply from cogeneration. Temperature monitoring, for each cylinder and anti-knock control, ensure the best possible utilisation of fuel and maximum power output, even if gas composition fluctuates.

Flexible usage

The gas-mixer and TEM allows use for a wide variety of gases. Even the most problematic gases such as landfill gas and sewage gas can be used without difficulty.

Natural Gas applications - $\text{NO}_x \leq 500 \text{ mg/Nm}^3$ *

Engine type	TCG 2016 V08 C 50Hz	TCG 2016 V12 C 50Hz	TCG 2016 V16 C 50Hz	TCG 2016 V12 C515 50Hz
Electrical output	400kW	600kW	800kW	515kW
Thermal output $\pm 8\%$	427kW	654kW	854kW	513kW
Electrical efficiency	42.3%	42.0%	42.5%	43.2%
Thermal efficiency	45.2%	45.8%	45.3%	43.1%

Biogas | Landfill Gas | Sewage Gas applications - $\text{NO}_x \leq 500 \text{ mg/Nm}^3$ *

Engine type	TCG 2016 V08 C 50Hz	TCG 2016 V12 C 50Hz	TCG 2016 V16 C 50Hz
Electrical output	400kW	600kW	800kW
Thermal output $\pm 8\%$	393kW	593kW	788kW
Electrical efficiency	42.8%	42.7%	42.8%
Thermal efficiency	42.0%	42.2%	42.2%

*5% O₂ and dry exhaust gases