

MWM TCG 2020 50Hz

Performance Data Sheet

Highest Ratings in Ecology and Economy



More profit

The TCG 2020 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 2020 requires up to 50 % less lubricating oil than other similar gensets. In terms of efficiency that means long-term savings.

Different engines to suit your needs

Whether you need high efficiency or an optimised standalone unit with good load compensation and black start properties, we can provide you with an engine that's tailored exactly to your needs.

An 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 2020 V12 50Hz	TCG 2020 V16 50Hz	TCG 2020 V20 50Hz	TCG 2020 V12 (1MW) 50Hz	TCG 2020 V12K 50Hz	TCG 2020 V12K1 50Hz
Electrical output	1200kW	1560kW	2000kW	1000kW	1125kW	1000kW
Thermal output $\pm 8\%$	1190kW	1580kW	1977kW	1042kW	1253kW	1177kW
Electrical efficiency	43.6%	43.2%	43.7%	43.0%	40.9%	40.0%
Thermal efficiency	43.3%	43.8%	43.2%	44.8%	45.6%	47.0%

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

Engine type	TCG 2020 V12 50Hz	TCG 2020 V16 50Hz	TCG 2020 V20 50Hz	TCG 2020 V12 (1MW) 50Hz
Electrical output	1200kW	1560kW	2000kW	1000kW
Thermal output $\pm 8\%$	1194kW	1577kW	2012kW	967kW
Electrical efficiency	43.0%	42.6%	43.0%	42.6
Thermal efficiency	42.8%	43.1%	43.3%	41.2

*5% O₂ and dry exhaust gases