



12KW MICRO TURBINE GENSET

**COST EFFECTIVE.
RELIABLE.
CLEAN.
QUIET.
TOWER POWER.**



POWER TRANSFORMED.

Every year the telecommunications industry puts 1,000s of diesel gensets in off grid or bad grid sites to provide efficient delivery of reliable power. They also bring high operating costs, theft risk and are not environmentally friendly.

The Bladon Micro Turbine Genset or MTG delivers all the reliability and practicality of a diesel genset but without the high operating costs.

The MTG is EU Stage V emissions equivalent producing 12kW of reliable power with low emissions and noise.

The MTG actively lowers total cost of ownership compared to traditional diesel gensets or hybrid diesel gensets especially for off grid and bad grid site applications.

MICRO TURBINE GENSET LOWERS OPERATING COSTS LOWERS TOTAL COST OF OWNERSHIP



ONCE A YEAR SERVICING, REGARDLESS OF RUN HOURS

- Reduce site service visits by up to 90%
- Zero maintenance, sealed for life power unit
- No liquid coolant or oils, no overhauls, no oil disposal required



FUEL FLEXIBLE

- The MTG can run on diesel or kerosene, or any blend of the two
- Approved paraffins or a blend of fuels to reduce operating costs and fuel theft



CLEANER, QUIETER

- EU Stage V emissions equivalent
- Less than 60dB(A) @ 7m

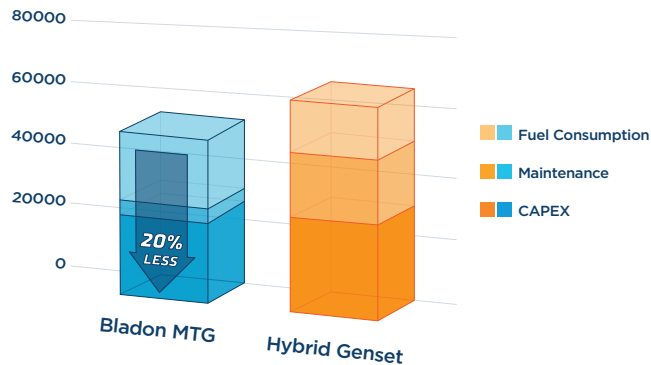
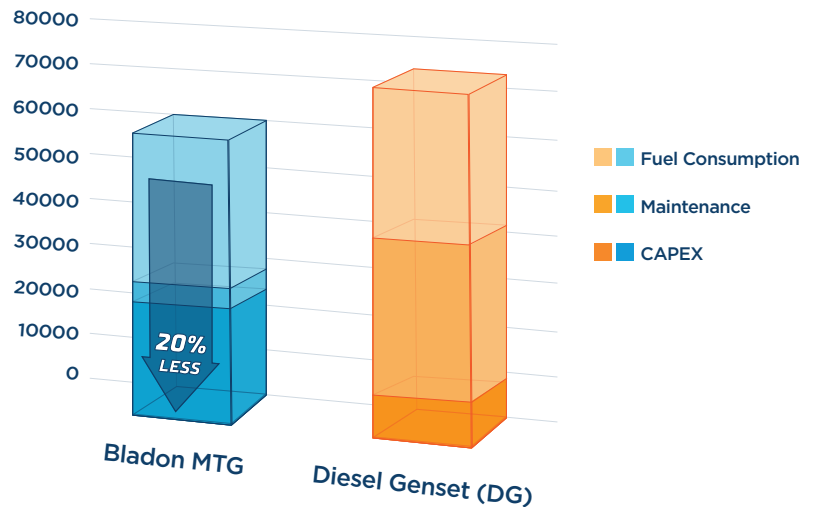
**INNOVATIVE MICROTURBINE
ENGINE AND AIR
BEARING TECHNOLOGIES
DELIVERS UP TO 12KW
OF RELIABLE POWER.**



UNIQUE APPROACHES TOWARDS LOWERING TOTAL COST OF OWNERSHIP

- Reduced site maintenance visits by up to 90%
- Reduce fuel costs using cheaper kerosene or approved paraffins
- Blended fuel to mitigate fuel and asset theft
- Has zero oil/liquid coolant so zero disposal costs
- Remote management and control as standard

Example: Using actual data (South Africa) – off grid site with 6kW average site load – reduced TCO by 20%

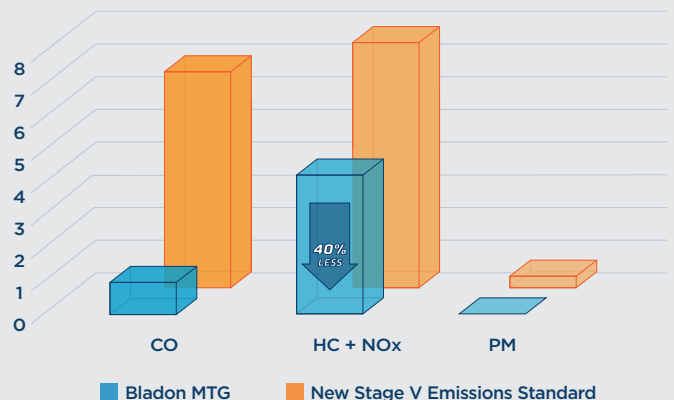


Compared to hybrid genset configurations the Bladon MTG can reduce TCO especially for sites that are off grid or connected to bad grid (<16 hours of reliable grid power availability)

Example: Using actual data (South Africa) – off grid site with 6kW average site load – reduced TCO by 20% compared to hybrid genset configuration

CLEANER AND QUIETER

The Bladon Micro Turbine Genset bridges the gap between 100% adoption of renewable energy solutions with traditional diesel gensets. The MTG delivers all the reliability and practicality of a diesel genset but with significantly lower emissions, noise and no engine oil or disposal costs. The MTG is EU Stage V equivalent and produces significantly less emissions than the new legislative requirements or equivalent.



The Bladon Micro Turbine generates a sound that is very quiet and unique making <60dB(A) at 7m. No other generator sounds like this one.

REMOTE MANAGEMENT AND CONTROL AS STANDARD

Eliminate unnecessary site visits through real time monitoring tools from DeepSea Electronics. The DSE7320 MKII™ controller and DSE890 Gateway™ remote manager are standard in the MTG.



BLADON MTG SPECIFICATION

KEY DATA

Engine	Variable Speed Micro Turbine
Application	Telecom tower power, off grid, bad grid or standby
Fuel	Diesel or kerosene, or a blend of both, and Bladon approved paraffins
Power	12kW (max continuous)
Voltage	230v AC single phase, 50Hz
Earthing	IEC 60364 TN-S
Certification	ISO 8528, 2006/42/EC Machinery Directive, CE marked
Enclosure	IP34 rated
Handling	Standard forklift truck, sling points for easy crane handling

ENVIRONMENTAL

Emissions	EU Stage V equivalent No liquid coolant, engine oil, grease, or lubricant needed
Noise	Less than 60dB(A) @ 7m

DIMENSIONS

STANDARD FEATURES

Length	2100 mm	DeepSea DSE7320 MkII controller
Width	1010 mm	GSM and 3G/4G aerial with a GPS receiver
Height	1400 mm	DeepSea DSE890 communication gateway for remote monitoring
Weight	920 kg	(provision for alternative communication gateways)

OPTIONAL EQUIPMENT

Automatic Transfer Switch (ATS) – Factory fit only

SERVICE & WARRANTY

Service: Single person service, One in-situ service every 12 months
Warranty: 2 years or 8,760 run hours

Specifications are not warranted and are subject to change without notice. Bladon Jets and all persons acting on its behalf disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

**Actual service life subject to air and fuel quality

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