



12kW MICRO TURBINE GENSET

**COST EFFECTIVE
RELIABLE
CLEAN
QUIET
TOWER POWER**



POWER TRANSFORMED.

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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, noise and pollutants.

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

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

OPEX 60%



**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

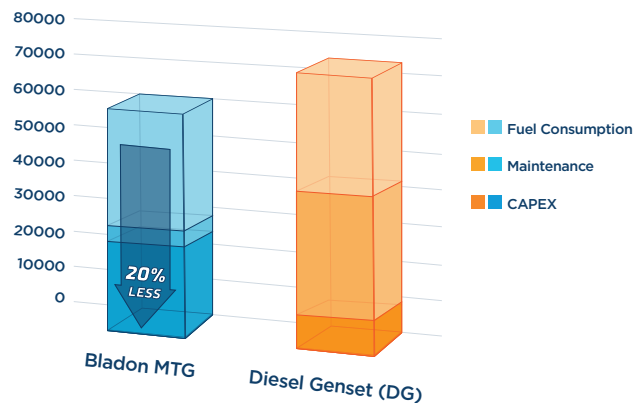
**INNOVATIVE MICROTURBINE
ENGINE AND AIR
BEARING TECHNOLOGIES
DELIVERS UP TO 12KW
OF RELIABLE POWER.**



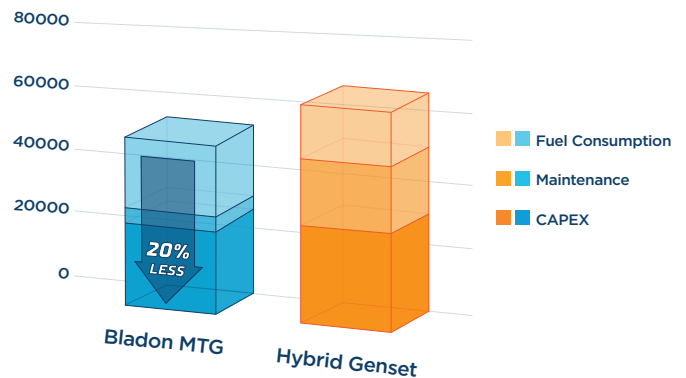
UNIQUE APPROACH TO LOWERING TOTAL COST OF OWNERSHIP

- 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 engine oil/liquid coolant and therefore zero liquid disposal costs

Compared to diesel genset or hybrid genset configurations the Bladon Micro Turbine Genset can reduce Total Cost of Ownership especially for sites that are off grid or connected to bad grid (<16 hours of reliable grid power availability)



Example: Using real data from South African off grid sites with 6kW average load reduced TCO by 20% compared to regular diesel genset

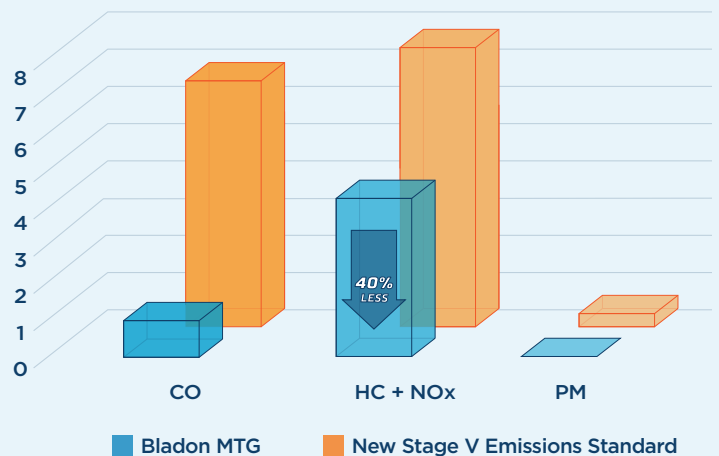


Example: Using actual data (South Africa) – off grid site with 6kW average site load – reduced TCO by 20% compared to hybrid genset configuration

CLEANER AND QUIETER

The Bladon Micro Turbine Genset bridges the gap between adoption of 100% 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.

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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BMT-SBMAR2021
Version 1.3