

MTP40

40kVA MULTIFUEL MICRO TURBINE POWER

OUTPUT RATINGS

	PRIME	STANDBY
380-415V, 3ph, 50/60Hz	40kVA ¹	44kVA ²
@1.0 Power Factor	32kW ¹	35.2kW ²



Mechanical Technical Data

Engine Make	Bladon
Engine Model	MTP40
Engine Speed (rpm)	50,000 to 120,000
Cooling System	Sealed for life water glycol mix
Total Lubrication System Capacity (L)	n/a (Air bearing technology)
Combustion Air Flow @ 100% Load (kg/s)	0.23
Exhaust Gas Flow (kg/s)	0.23
Fuel Consumption @ 25% load (L/hr) ³	3.40
Fuel Consumption @ 50% load (L/hr) ³	5.47
Fuel Consumption @ 75% load (L/hr) ³	7.47
Fuel Consumption @ 100% load (L/hr) ³	9.90
Base Fuel Tank (L)	1000/1500 (Optional equipment)

Dimensions

Length (m)	2.25
Width (m)	1.01
Height (m)	2.00
Weight (kg) ⁴	1,400

Electrical Technical Data

Alternator Manufacturer	Bladon
Output Voltage Range (V)	380-415 3ph
Output Frequency (Hz)	50/60 end user configurable without affecting fuel consumption
Earthing Configuration	TN-S
Performance Class (ISO 8528)	G2
Short Circuit Capacity	200% for 10 sec
Circuit Breaker	3 pole MCB
Internal Battery Voltage (V)	48 (4 x 12)
Internal Battery Capacity (Ah)	65
Automatic Transfer Switch - ATS	Optional equipment
Battery Charger	Optional equipment

References

- 1) P.R.P. Prime Power-Continuous power
The power that a generator can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the manufacturer according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the manufacturer.
- 2) E.S.P Emergency Standby Power
Emergency standby power rating indicates the maximum power output available for a limited number of hours per year during an emergency or a failure of the primary power source. This rating provides the stated capacity for one hour in every 12 hours of operation, whilst respecting the maintenance intervals established in the environmental conditions stated by the manufacturer according to ISO8528-1. The total number of hours at this load must not exceed 200 run hours per year. Overload is not permitted.

Environmental Capability

Ambient Temperature (°C) ⁵	-20 to +45
Humidity (%)	0 to 100
Altitude (m) ⁵	0 to 2500
Maximum Windspeed (m/s)	50
Canopy Ingress Protection Rating	IP24

Other Characteristics

Emissions Class	EU Stage V
Sound Pressure @ 7m (dB L _{PA}) ⁶	60
Sound Pressure @ 7m with Super Quiet Pack (dB L _{PA}) ⁶	55 (Optional equipment)
Control Panel	Deepsea DSE 7320
Remote Monitoring	Deepsea DSE 890 with 4G and RS485
Base frame	Powder coat over zinc phosphate coated steel
Enclosure	Powder coat over zinc phosphate coated steel
Access Doors	Lockable with stays

Compatible Fuels

The Bladon Micro Turbine is capable of running on a multitude of fuels including variable ratio mixes. These fuels include Bio-diesel, Kerosene, Paraffin and Diesel. Please refer to your Bladon representative for a full list of the compatible fuels.

Maintenance & Servicing

Design life of 45,000 run hours⁷
Once a year servicing – regardless of run hours⁸

Warranty

24 month or 8760 hour, whichever comes earlier, parts & labour.
Optional extended warranty available by request.

- 3) Nominal fuel consumption using diesel at a density of 0.850kg/L.
- 4) Weight is provided including coolant and lubricants but without fuel.
- 5) The output power of the product will de-rate due to altitude or temperature greater than the standard conditions specified in ISO8528. Please refer to your Bladon representative for access to the de-rating table.
- 6) Sound pressure levels refer to free field conditions: Installation site may influence the values.
- 7) Subject to Bladon certified maintenance schedule
- 8) In environments subject to sand and dust storms additional filter maintenance may be required.

All declared values are correct at the time of writing. Bladon reserves the right to change specifications without notice. Advice should always be sought from a Bladon representative on the suitability of the product for your specific requirements. Product image is for illustration purposes only.