

FLEX TURBINE® GT1300S

FLEXENERGY 1.3 MEGAWATT HIGHLY EFFICIENT ULTRA LOW EMISSION POWER PACKAGE

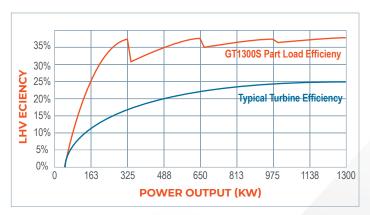


KEY FEATURES

- High electrical efficiency over a wide operating range
- Part load redundancy and demand response control
- Built with the same proven technology as the GT333S
- Integrated Utility synchronization and protection
- Remote Monitoring and FlexCare® fixed maintenance plans available

ELECTRICAL PERFORMANCE*

CHARACTERISTIC	SPECIFICATION
Electrical efficiency	33% LHV
Electrical power	1300 kW
Nominal Heat Rate (LHV)	10,490 Btu/kWh (11.1 MJ/kWh)
Nominal Heat Rate (HHV)	11,540 Btu/kWh (12.1 MJ/kWh)
Voltage	480 VAC / 400 VAC
Frequency	60 Hz / 50 Hz
Type of Service	3 phase, wye, 4 wire



*At ISO Conditions (59°F [15°C], sea level, 60% RH); high pressure natural gas Electrical efficiency tolerance: +1/-2.5 pts
Electrical power tolerance: ± 50kW

Elevation derate of approximately 3.5% per 1000 ft (305 m)

HEAT RECOVERY*

- Exhaust temp: 507°F (264°C)
- Engine air flow: 19.8 lb/s (9.2 kg/s) 15,560 scfm (25,000 Nm³/h)
- Max available heat: 7.6 MMBtu/h (2,224 kW)
- *At ISO conditions; four drivetrains operating at full power. Available heat based on exhaust recovery down to 59°F (15°C).

FUEL REQUIREMENTS*

- Fuel Consumption (LHV) -13.6 MMBtu/h (3,996 kW)
- Inlet pressure 75 to 140 psig (517 to 965 kPag)
- Acceptable Fuel Range (LHV) -325 to 1900 WI Btu/ft³, 12.1 to 70.7 WI MJ/m³
- * Consumption at ISO conditions; four drivetrains operating at full power. WI -Wobbe Index Lower heating value (LHV).

PHYSICAL SPECIFICATIONS

Turbine

W - 96 in, L - 480 in, H - 124 in WEIGHT - 48,000 lb

Package

W - 244 cm, L - 1219 cm, H - 315 cm WEIGHT - 21,818 kg

GBR - One per

W - 43 in, L - 63 in, H - 21 in WEIGHT - 595 lb

Drivetrain

W - 110 cm, L - 160 cm, H - 78 cm WEIGHT - 270 kg

Ambient Temperature Range -20° to 115°F (-29° to 46°C)

Sound Levels
Turbine Package - 69 dB(A) @ 10 m
GBRs - 65 dB(A) @ 10 m

EMISSIONS AT 100% LOAD*

 $\begin{array}{l} {\rm NOx} - 5 \ {\rm ppmv} \ @ \ 15\% \ {\rm O_2} \\ {\rm CO} - 5 \ {\rm ppmv} \ @ \ 15\% \ {\rm O_2} \\ {\rm VOC} - 5 \ {\rm ppmv} \ @ \ 15\% \ {\rm O_2} \\ {\rm ^*Pipeline} \ {\rm natural} \ {\rm gas} \ {\rm only} \ {\rm at} \ {\rm ISO} \\ {\rm conditions.} \ {\rm May} \ {\rm differ} \ {\rm based} \ {\rm on} \ {\rm site} \\ {\rm conditions.} \end{array}$

©2019 FlexEnergy Inc. and/or its affiliates ("FlexEnergy"). This document comprises a general overview of the products or services described herein. It is solely for informational purposes, does not represent a warranty of the information contained herein and is not to be construed as an offer to sell or solicitation to buy. Contact FlexEnergy for detailed product, design, and engineering information suitable to your specific applications. FlexEnergy reserves the right to modify its products and related product information at any time without prior notice.