

C65 MicroTurbine Oil & Gas



33% smaller than equivalent generators. Offers ultra-low emissions and reliable electrical generation from raw natural gas.

- UL Class 1, Division 2 or ATEX Class 1, Zone 2 certification available
- Patented air bearing – no lubricating oil or coolant
- One moving part – minimal maintenance and downtime
- Ultra-low emissions
- Immediate service available worldwide
- Remote monitoring and diagnostic capabilities
- Multiple units easily synchronized
- Electrical protective relays mean no external switchgear required
- Small, modular design allows for easy, low-cost installation
- Reliable – tens of millions of run hours and counting
- Optional High Humidity protection available



C65 MicroTurbine



Offshore Hazardous Area

Electrical Performance⁽¹⁾

Electrical Power Output	65kW
Voltage	400–480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	10–60 Hz, stand alone operation
Maximum Output Current	100A, stand alone operation ⁽²⁾
Electrical Efficiency LHV	29%

Fuel/Engine Characteristics⁽¹⁾

	Non-Hazardous Area Config.	Hazardous Area Config.
Natural / Wellhead Gas HHV	30.7–47.5 MJ/m ³ (825–1,275 BTU/scf)	30.7–47.5 MJ/m ³ (825–1,275 BTU/scf)
Inlet Pressure	517–552 kPa gauge (75–80 psig)	517–552 kPa gauge (75–80 psig)
Fuel Flow HHV	888 MJ/hr (842,000 BTU/hr)	920 MJ/hr (872,000 BTU/hr)
Net Heat Rate LHV	12.4 MJ/kWh (11,800 BTU/kWh)	12.9 MJ/kWh (12,200 BTU/kWh)

Exhaust Characteristics⁽¹⁾

	High Pressure Natural Gas	Hazardous Area Config.
NOx Emissions @ 15% O ₂ ⁽³⁾	< 9 ppmvd (18 mg/m ³)	< 9 ppmvd (18 mg/m ³)
NOx / Electrical Output ⁽³⁾	0.16 g/bhp-hr (0.46 lb/MWhe)	0.16 g/bhp-hr (0.46 lb/MWhe)
Exhaust Gas Flow	0.49 kg/s (1.08 lbm/s)	0.50 kg/s (1.09 lbm/s)
Exhaust Gas Temperature	309°C (588°F)	325°C (617°F)

Reliable power when and where you need it. Clean and simple.

Dimensions & Weight⁽⁴⁾

	High Pressure Natural Gas	Hazardous Area Config.
Width x Depth x Height	0.76 x 2.0 x 1.9 m (30 x 77 x 75 in)	0.87 x 3.2 x 2.29 m (34 x 127 x 90 in)
Weight	1121 kg (2,471 lb)	1666 kg (3,672 lb)

Minimum Clearance Requirements⁽⁵⁾

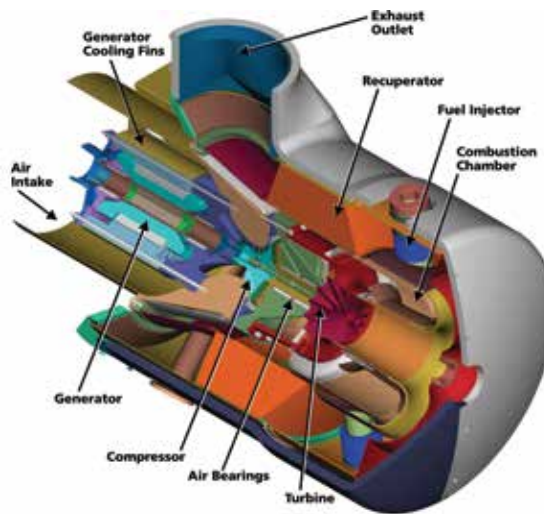
	High Pressure Natural Gas	Hazardous Area Config.
Horizontal Clearance		
Left & Right	0.76 m (30 in)	1.27 m (50 in)
Front ⁽⁶⁾	1.65 m (65 in)	1.8 m (72 in)
Rear	0.91 m (36 in)	0.91 m (36 in)

Sound Levels

	High Pressure Natural Gas	Hazardous Area Config.
Acoustic Emissions at Full Load Power		
Nominal at 10 m (33 ft)	70 dBA	70 dBA

Certifications

- Hazardous Area configurations certified to UL 2200 and NFPA 496
- Hazardous Area configurations certified for hazardous locations (UL file E240758) for standard natural gas
- Models available with optional equipment for CE Marking
- Hazardous Area configurations available with ATEX



(1) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
(2) With linear load
(3) Exhaust emissions for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
(4) Approximate dimensions and weights
(5) Clearance requirements may increase due to local code considerations
(6) Battery Removal clearance
Specifications are not warranted and are subject to change without notice.

