

# 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<sup>(1)</sup>

Electrical Power Output	65kW
Voltage	400 to 480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	10-60 Hz
Maximum Output Current	127A, stand alone operation <sup>(2)</sup>
Electrical Efficiency LHV	29%

## Fuel/Engine Characteristics<sup>(1)</sup>

	High Pressure Natural Gas	Hazardous Area Config.
Natural/Wellhead Gas HHV	30.7 MJ/m <sup>3</sup> to 47.5 MJ/m <sup>3</sup> (825 to 1,275 BTU/scf)	30.7 MJ/m <sup>3</sup> to 47.5 MJ/m <sup>3</sup> (825 to 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<sup>(1)</sup>

	High Pressure Natural Gas	Hazardous Area Config.
NOx Emissions @ 15% O <sub>2</sub> <sup>(3)</sup>	9 ppmvd (19 mg/m <sup>3</sup> )	9 ppmvd (19 mg/m <sup>3</sup> )
NOx/Electrical Output <sup>(3)</sup>	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<sup>(4)</sup>** High Pressure Natural Gas Hazardous Area Config.

Width x Depth x Height	0.76 x 2.0 x 2.1 m (30 x 77 x 83 in)	0.92 x 3.2 x 2.5 m (37 x 128 x 98 in)
Weight	1121 kg (2,471 lb)	1666 kg (3,665 lb)

**Minimum Clearance Requirements<sup>(5)</sup>** High Pressure Natural Gas Hazardous Area Config.

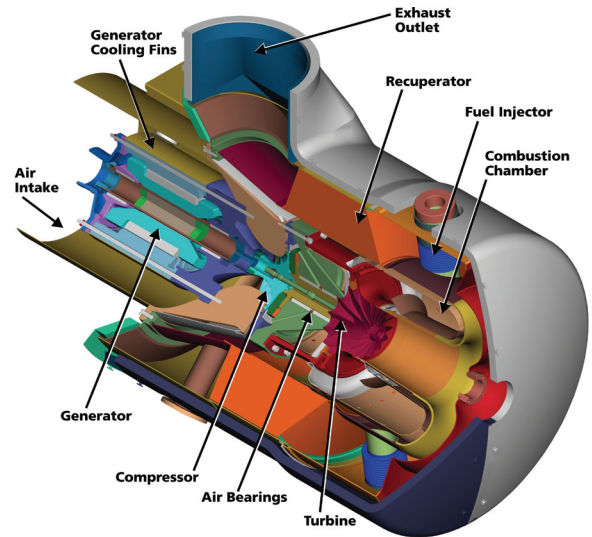
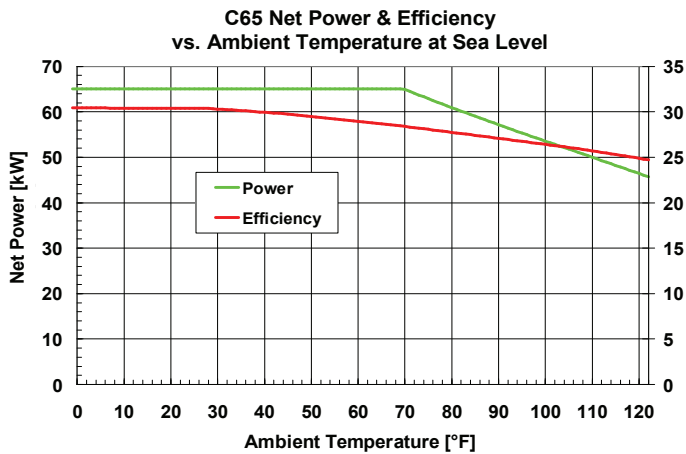
Vertical Clearance	0.61 m (24 in)	0.61 m (24 in)
Horizontal Clearance		
Left & Right	0.76 m (30 in)	1.3 m (50 in)
Front <sup>(6)</sup>	1.7 m (65 in)	1.8 m (72 in)
Rear	0.91 m (36 in)	0.91 m (36 in)

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



(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/Nm<sup>3</sup> (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.

