

# C65 Microturbine

High-pressure Sour Natural Gas



**Achieve ultra-low emissions and reliable electrical generation from sour natural gas.**

- + Ultra-low emissions
- + Accepts sour gas fuels with up to 5,000 ppm H<sub>2</sub>S
- + One moving part – minimal maintenance and downtime
- + Patented air bearings – no lubricating oil or coolant
- + Integrated utility synchronization – no external switchgear
- + Compact modular design allows for easy, low-cost installation
- + Multiple units easily combined – act as single generating source
- + Remote monitoring and diagnostic capabilities
- + Proven technology with tens of millions of operating hours
- + Various Factory Protection Plans available



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## Electrical Performance<sup>(1)</sup>

Electrical Power Output	65kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	29%

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

Sour Natural Gas HHV	30.7–47.5 MJ/m <sup>3</sup> (825–1,275 BTU/scf)
H <sub>2</sub> S Content	< 5,000 ppmv
Inlet Pressure	517–551 kPa gauge (75–80 psig)
Fuel Flow HHV	888 MJ/hr (842,000 BTU/hr)
Net Heat Rate LHV	12.4 MJ/kWh (11,800 BTU/kWh)

## Exhaust Characteristics<sup>(1)</sup>

NO <sub>x</sub> Emissions @ 15% O <sub>2</sub>	< 9 ppmvd (19 mg/m <sup>3</sup> )
Exhaust Mass Flow	0.49 kg/s (1.08 lbm/s)
Exhaust Gas Temperature	309°C (588°F)

## Dimensions & Weight<sup>(2)</sup>

Width x Depth x Height <sup>(3)</sup>	0.76 x 1.95 x 1.91 m (30 x 77 x 75 in)
Weight - Grid Connect Model	758 kg (1,671 lb)
Weight - Dual Mode Model	1,121 kg (2,471 lb)

## Minimum Clearance Requirements<sup>(4)</sup>

Horizontal Clearance	
Left & Right	0.76 m (30 in)
Front - Grid Connect Model	0.76 m (30 in)
Front - Dual Mode Model	1.65 m (65 in)
Rear	0.91 m (36 in)

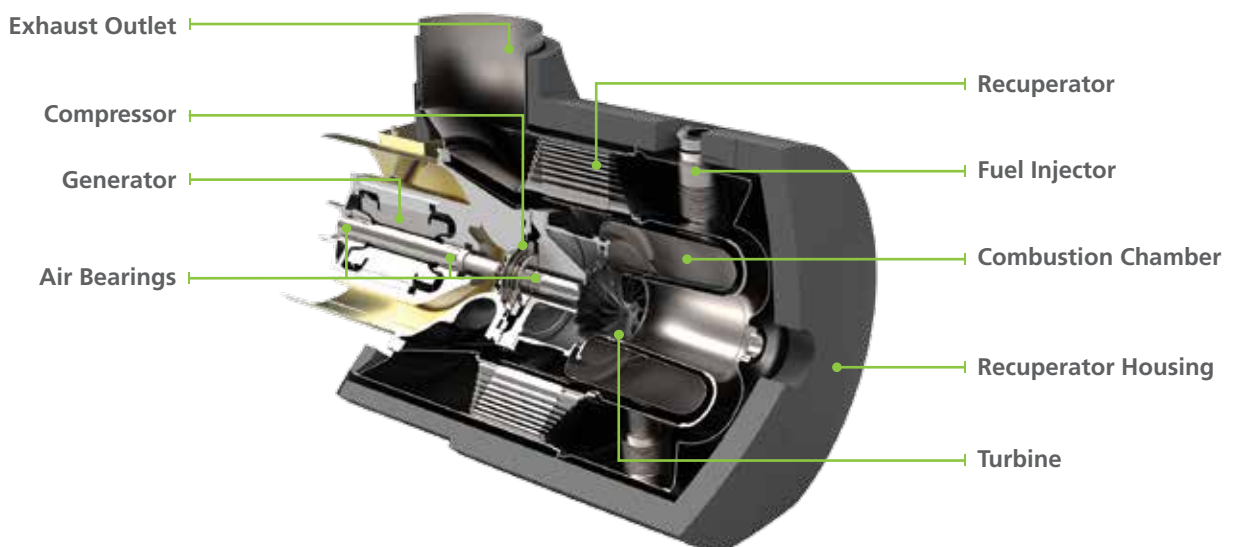
## Acoustic Emissions

Nominal at Full Power at 10 m (33 ft) <sup>(5)</sup>	70 dBA
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## Certifications

- UL 2200 Listed
- CE Certified
- Certified to the following grid interconnection standards: UL 1741, VDE, and BDEW
- Compliant to California Rule 21

## C65 Engine Components



(1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH

(2) Approximate dimensions and weights

(3) Height dimensions are to the roofline. Exhaust stack extends at least 178 mm (7 in) above the roofline

(4) Clearance requirements may increase due to local code considerations

(5) The optional acoustic inlet hood kit can reduce acoustic emissions at the front of the Microturbine as much as 5 dBA  
Specifications are not warranted and are subject to change without notice.

