

C65 Microturbine

High-pressure Natural Gas, ICHP - CARB Certified



CARB certified to achieve ultra-low emissions and reliable electrical/thermal generation from natural gas.

- + Less than 4 ppm volume NOx emissions at 15% O₂ – among industry's lowest
- + 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⁽¹⁾

Electrical Power Output	65kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	28%

Fuel/Engine Characteristics⁽¹⁾

Natural Gas HHV	30.7–47.5 MJ/m ³ (825–1,275 BTU/scf)
Inlet Pressure	517– 551 kPa gauge (75–80 psig)
Fuel Flow HHV	919 MJ/hr (871,000 BTU/hr)
Net Heat Rate LHV	12.9 MJ/kWh (12,200 BTU/kWh)

Exhaust Characteristics⁽¹⁾

NOx Emissions @ 15% O ₂	< 4 ppmvd (8 mg/m ³)
Exhaust Mass Flow	0.51 kg/s (1.13 lbm/s)
Exhaust Gas Temperature	311°C (592°F) (Heat Recovery Bypassed)

ICHP Heat Recovery⁽²⁾

Integrated Heat Recovery Module Type	Copper Core
Hot Water Heat Recovery	118kW (0.40 MMBTU/hr)

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

Dimensions & Weight⁽³⁾

Width x Depth x Height ⁽⁴⁾	0.76 x 2.20 x 2.62 m (30 x 87 x 103 in)
Weight - Grid Connect Model	1,089 kg (2,400 lb)
Weight - Dual Mode Model	1,451 kg (3,200 lb)

Minimum Clearance Requirements⁽⁵⁾

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	0.76 m (30 in)

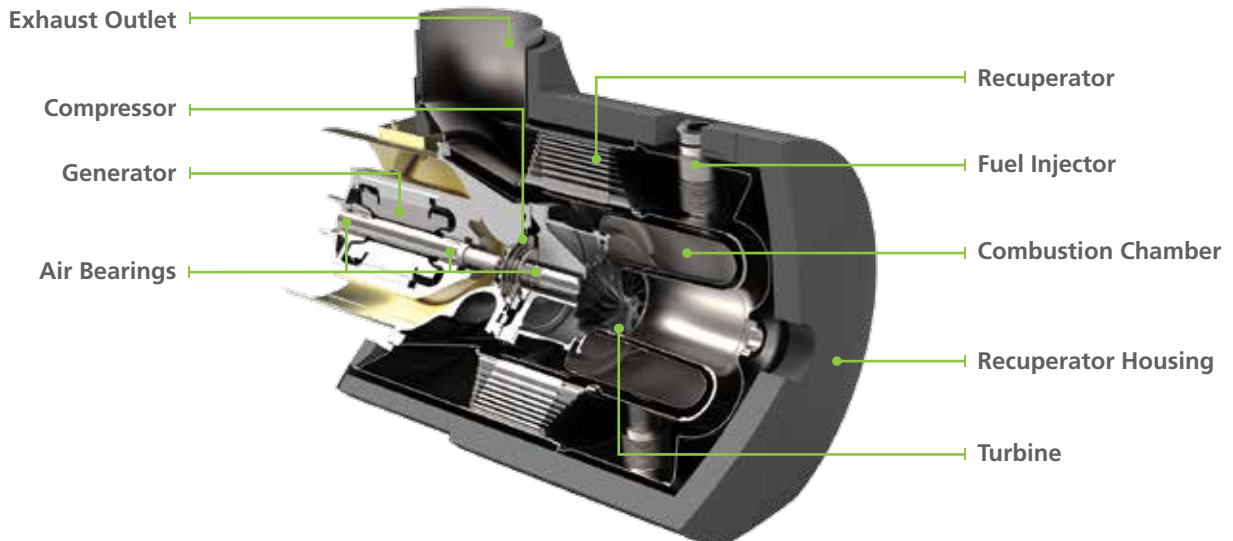
Acoustic Emissions

Nominal at Full Power at 10 m (33 ft)	65 dBA
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Certifications

- UL 1741 and UL 2200 Listed
- Compliant to California Rule 21
- Certification to California Air Resources Board (CARB) 2007 for operation on Natural Gas

C65 Engine Components



(1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH
 (2) Heat recovery for water inlet temperature of 60°C (140°F) and flow rate of 2.5 l/s (40 GPM)
 (3) Approximate dimensions and weights
 (4) Height dimensions are to the roofline. Exhaust stack extends at least 178 mm (7 in) above the roofline
 (5) Clearance requirements may increase due to local code considerations
 Specifications are not warranted and are subject to change without notice.

