

# C65 Microturbine

Liquid Fuels, ICHP



**Achieve ultra-low emissions and reliable electrical/thermal generation with diesel or kerosene fuels.**

- + Ultra-low emissions
- + 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



C65 ICHP Microturbine

## 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>

Liquid Fuels	Diesel (ASTM D975-13 Grade No. 1-D S15 and 2-D S15) Aviation (ASTM D1655 Jet-A, MIL-DTL-83133E JP-8, MIL-DTL-5624U JP-5) Kerosene (ASTM D3699-08 1-K, JIS K2203)
Inlet Pressure	3.4–34.5 kPa gauge (0.5– 5.0 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>

Exhaust Mass Flow	0.49 kg/s (1.08 lbm/s)
Exhaust Gas Temperature	309°C (588°F) (Heat Recovery Bypassed)

## ICHP Heat Recovery<sup>(2)</sup>

Integrated Heat Recovery Module Type	Copper Core
Hot Water Heat Recovery	124kW (0.42 MMBTU/hr)

## Dimensions & Weight<sup>(3)</sup>

Width x Depth x Height	0.76 x 2.20 x 2.53 m (30 x 87 x 100 in)
Weight - Grid Connect Model, dry	998 kg (2,200 lb)
Weight - Dual Mode Model, dry	1,364 kg (3,000 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	0.76 m (30 in)

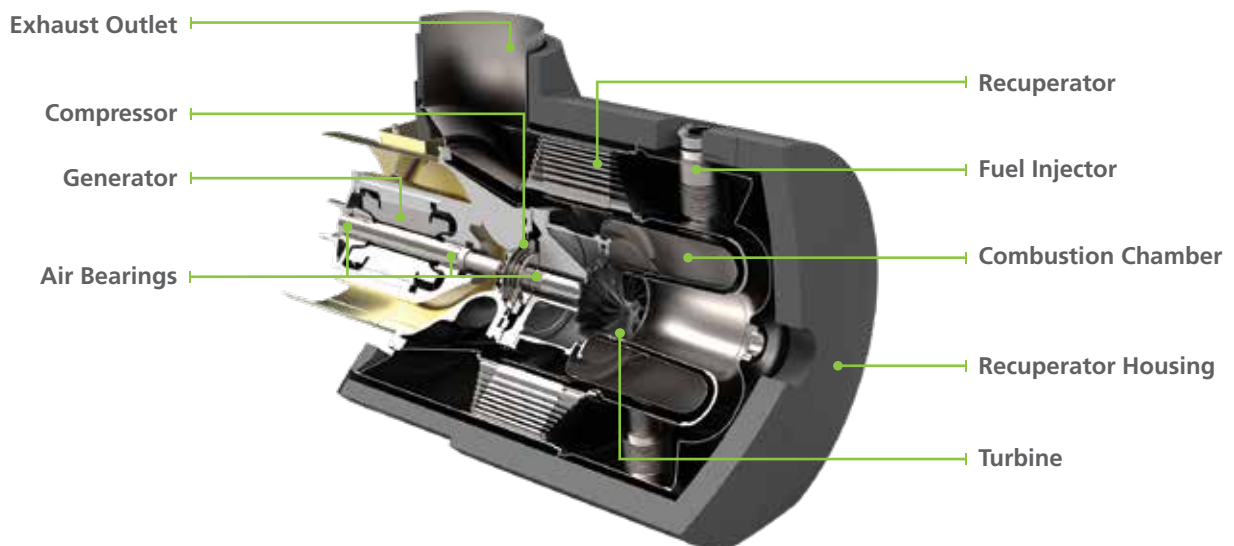
## Acoustic Emissions

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

- Certified to the following grid interconnection standards: UL1741

## C65 Engine Components



(1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH  
 (2) Nominal 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) Clearance requirements may increase due to local code considerations  
 Specifications are not warranted and are subject to change without notice.

