

C65 & C65-ICHP MicroTurbine Liquid Fuels



Achieve lower emissions and reliable electrical/thermal generation with diesel, kerosene and bio-diesel fuels.

- Ultra-low emissions
- One moving part: Minimal maintenance and downtime
- Patented air bearing: No lubricating oil or coolant
- 5 and 9 year Factory Protection Plans available
- Remote monitoring and diagnostic capabilities
- Integrated utility synchronization and protection⁽¹⁾
- Small, modular design allows for easy, low-cost installation
- Reliable: Tens of millions of run hours and counting



C65 MicroTurbine

Electrical Performance⁽²⁾

Electrical Power Output	65kW
Voltage	400–480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	50/60 Hz, grid connect operation 10–60 Hz, stand alone operation
Maximum Output Current	100A, grid connect operation 127A, stand alone operation ⁽³⁾
Electrical Efficiency LHV	29%



C65-ICHP MicroTurbine

Fuel/Engine Characteristics⁽²⁾

Liquid Fuels ⁽⁴⁾	Diesel (ASTM D975-07b Grade Low Sulfur No. 1-D, 2-D) Bio-Diesel Aviation (ASTM D1655 Jet-A, MIL-DTL-83133E JP-8, MIL-DTL-5624U JP-5) Kerosene (ASTM D3699 1-K, JIS K2203)
Inlet Pressure	-34.5 to 34.5 kPa gauge (-5 to +5 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⁽²⁾

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

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

C65-ICHP Heat Recovery⁽⁵⁾

Integrated Heat Recovery Module Type	Stainless Steel Core
Hot Water Heat Recovery	74 kW (251,000 BTU/hr)
Total System Efficiency LHV	62%

Dimensions & Weight⁽⁶⁾

	C65	C65-ICHP
Width x Depth ⁽⁷⁾ x Height ⁽⁸⁾	0.76 x 1.9 x 1.9 m (30 x 77 x 76 in)	0.76 x 2.2 x 2.4 m (30 x 87 x 93 in)
Weight - Grid Connect Model	758 kg (1,671 lb)	1000 kg (2,200 lb)
Weight - Dual Mode Model	1121 kg (2,471 lb)	1364 kg (3,000 lb)

Minimum Clearance Requirements⁽⁹⁾

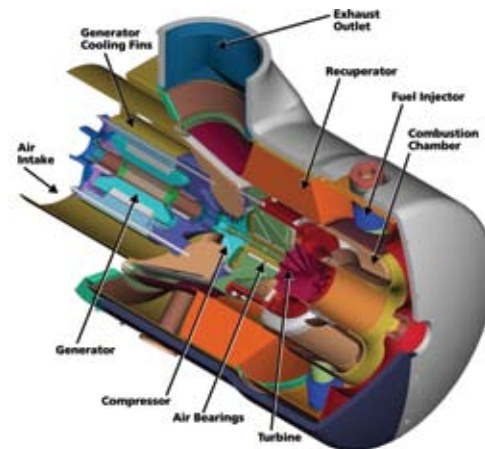
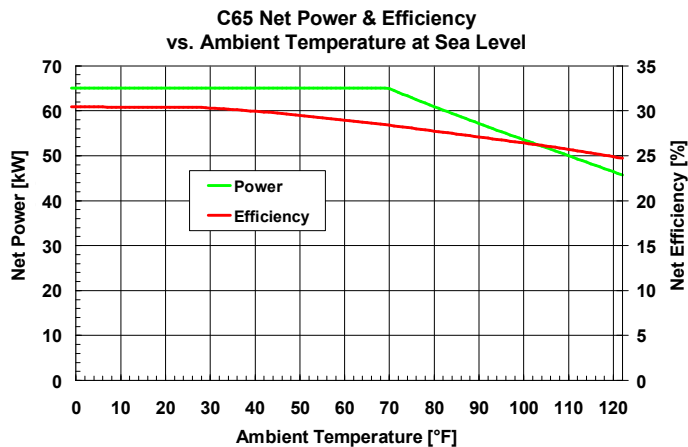
	C65	C65-ICHP
Vertical Clearance	0.61 m (24 in)	0.61 m (24 in)
Horizontal Clearance		
Left & Right	0.76 m (30 in)	0.76 m (30 in)
Front ⁽¹⁰⁾	1.7 m (65 in)	1.7 m (65 in)
Rear	0.91 m (36 in)	0.76 m (30 in)

Sound Levels

	C65	C65-ICHP
Acoustic Emissions at Full Load Power ⁽¹¹⁾		
Nominal at 10 m (33 ft)	70 dBA	65 dBA

Certifications

- Models available with optional equipment for CE Marking



- (1) Some utilities may require additional equipment for grid interconnectivity
 - (2) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
 - (3) With linear load
 - (4) Contact Capstone for additional information
 - (5) Heat recovery for water inlet temperature of 38°C (100°F) and flow rate of 2.5 l/s (40 GPM)
 - (6) Approximate dimensions and weights
 - (7) Depth includes 10 inch extension for the heat recovery module rain hood on ICHP versions
 - (8) Height dimensions are to the roof line. Exhaust outlet extends at least 7 inches above the roof line
 - (9) Clearance requirements may increase due to local code considerations
 - (10) Dual Mode MicroTurbine configuration for Battery Removal clearance
 - (11) The optional acoustic inlet hood kit can reduce acoustic emissions at the front of the MicroTurbine by up to 5 dBA
- Specifications are not warranted and are subject to change without notice.*

