

C65 & C65-ICHP MicroTurbine Natural Gas



Achieve ultra-low emissions and reliable electrical/thermal generation from natural gas.

- 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	65 kW
Voltage	400 to 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%

Fuel/Engine Characteristics⁽²⁾

Natural Gas HHV	30.7 MJ/m ³ to 47.5 MJ/m ³ (825 to 1,275 BTU/scf)
Inlet Pressure ⁽⁴⁾	517-552 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)



C65-ICHP MicroTurbine

Exhaust Characteristics⁽²⁾

	C65
NOx Emissions at 15% O ₂ ⁽⁵⁾	9 ppmvd (19 mg/m ³)
NOx / Electrical Output ⁽⁵⁾	0.16 g/bhp-hr (0.46 lb/MWhe)
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⁽⁶⁾

Integrated Heat Recovery Module Type	Copper Core	Stainless Steel Core
Hot Water Heat Recovery	120 kW (408,000 BTU/hr)	74 kW (251,000 BTU/hr)
Total System Efficiency LHV	82%	62%

Dimensions & Weight⁽⁷⁾

	C65	C65-ICHP
Width x Depth ⁽⁸⁾ x Height ⁽⁹⁾	0.76 x 2.0 x 2.1 m (30 x 77 x 83 in)	0.76 x 2.2 x 2.4 m (30 x 87 x 94 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⁽¹⁰⁾

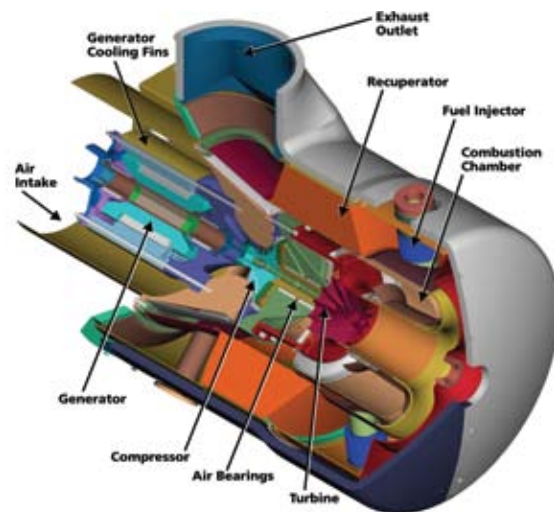
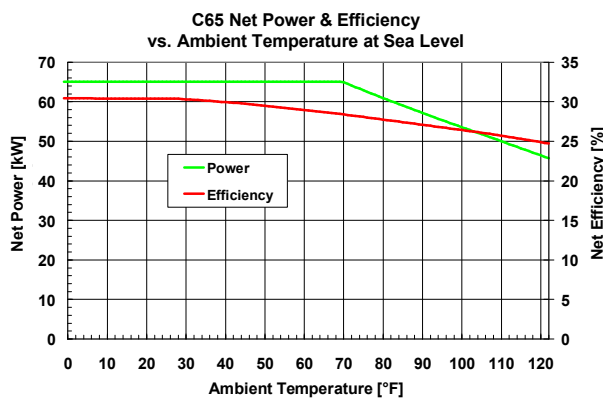
	C65	C65-ICHP
Vertical Clearance	0.61 m (24 in)	0.61 m (24 in)
Horizontal Clearance		
Left & Right	0.76 m (30 in)	0.76 m (30 in)
Front ⁽¹¹⁾	1.7 m (65 in)	1.7 m (65 in)
Rear	0.91 m (36 in)	0.76 m (30 in)

Sound Levels

	C65	C65-ICHP
Acoustic Emissions at Full Load Power ⁽¹²⁾		
Nominal at 10 m (33 ft)	70 dBA	65 dBA

Certifications

- Certified to UL 2200 and UL 1741 for natural gas operation (UL files AU2687, E209370)
- Complies with IEEE 1547 and meets statewide utility interconnection requirements for California Rule 21 and the New York State Public Service Commission
- Materials Equipment Acceptance (MEA) approval for New York City
- 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) Inlet pressure for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 - (5) Exhaust emissions for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 - (6) Heat recovery for water inlet temperature of 38°C (100°F) and flow rate of 2.5 l/s (40 GPM)
 - (7) Approximate dimensions and weights
 - (8) Depth includes 10 inch extension for the heat recovery module rain hood on ICHP versions
 - (9) Height dimensions are to the roof line. Exhaust outlet extends at least 7 inches above the roof line
 - (10) Clearance requirements may increase due to local code considerations
 - (11) Dual Mode MicroTurbine configuration for Battery Removal clearance
 - (12) The optional acoustic inlet hood kit can reduce acoustic emissions at the front of the MicroTurbine by up to 3-5 dBA
- Specifications are not warranted and are subject to change without notice.*

