

## C65 & C65 ICHP MicroTurbine Liquid Fuels



Achieve lower emissions and reliable electrical/thermal generation with diesel or kerosene 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<sup>(1)</sup>
- Small, modular design allows for easy, low-cost installation
- Reliable – tens of millions of run hours and counting



C65 MicroTurbine

### Electrical Performance<sup>(2)</sup>

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



C65 ICHP MicroTurbine

### Fuel/Engine Characteristics<sup>(2)</sup>

|                             |  |
|-----------------------------|--|
| Liquid Fuels <sup>(4)</sup> | Diesel (ASTM D975-07b Grade<br>Low Sulfur No. 1-D, 2-D)<br>Aviation (ASTM D1655 Jet-A,<br>MIL-DTL-83133E JP-8, MIL-DTL-5624U JP-5)<br>Kerosene (ASTM D3699 1-K, JIS K2203) |
| Inlet Pressure              | 19.4 ± 16 kPaG (2.75 ± 2.25 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>(2)</sup>

|                         |                        |
|-------------------------|------------------------|
| 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<sup>(5)</sup>

|                                      |                       |
|--------------------------------------|-----------------------|
| Integrated Heat Recovery Module Type | Copper Core           |
| Hot Water Heat Recovery              | 112kW (0.38 MMBTU/hr) |

## Dimensions & Weight<sup>(6)</sup>

|  | C65                                     | C65 ICHP                                 |
|--|---|--|
| Width x Depth <sup>(7)</sup> x Height <sup>(8)</sup> | 0.76 x 2.0 x 1.9 m<br>(30 x 77 x 75 in) | 0.76 x 2.2 x 2.36 m<br>(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<sup>(9)</sup>

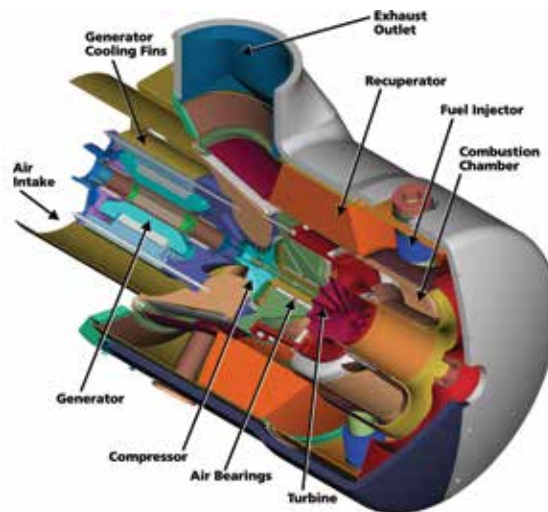
|                       | C65            | C65 ICHP       |
|-----------------------|----------------|----------------|
| Horizontal Clearance  |                |                |
| Left & Right          | 0.76 m (30 in) | 0.76 m (30 in) |
| Front <sup>(10)</sup> | 1.65 m (65 in) | 1.65 m (65 in) |
| Rear                  | 0.91 m (36 in) | 0.76 m (30 in) |

## Sound Levels

|   | C65    | C65 ICHP |
|---|--------|----------|
| Acoustic Emissions at Full Load Power <sup>(11)</sup> |        |          |
| 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 60°C (140°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.*

