

C600S Power Package

High-pressure Natural Gas, ICHP



The Signature Series Microturbine provides ultra-low emissions and reliable electrical/thermal generation from natural gas.

- + 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
- + High electrical efficiency over a very wide operating range
- + High availability – part load redundancy
- + Remote monitoring and diagnostic capabilities
- + Proven technology with tens of millions of operating hours
- + Various Factory Protection Plans available



C600S ICHP Power Package

Electrical Performance⁽¹⁾

| | |
|---------------------------|---------------------|
| Electrical Power Output | 600kW |
| Voltage | 400/480 VAC |
| Electrical Service | 3-Phase, 4 Wire Wye |
| Frequency | 50/60 Hz |
| Electrical Efficiency LHV | 33% |

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 | 7,200 MJ/hr (6,840,000 BTU/hr) |
| Net Heat Rate LHV | 10.9 MJ/kWh (10,300 BTU/kWh) |

Exhaust Characteristics⁽¹⁾

| | |
|--|--|
| NO _x Emissions @ 15% O ₂ | < 9 ppmvd (18 mg/m ³) |
| Exhaust Mass Flow | 4.0 kg/s (8.8 lbm/s) |
| Exhaust Gas Temperature | 280°C (535°F) (Heat Recovery Bypassed) |

Dimensions & Weight⁽²⁾

| | |
|----------------------------------|--|
| Width x Depth x Height | 3.0 x 5.8 x 4.0 m (117 x 230 x 157 in) |
| Weight - Grid Connect Model, dry | 13,700 kg (30,000 lbs) |
| Weight - Dual Mode Model, dry | 15,800 kg (34,900 lbs) |

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

Minimum Clearance Requirements⁽³⁾

| Horizontal Clearance | |
|----------------------|---------------|
| Left | 1.5 m (60 in) |
| Right | 0.0 m (0 in) |
| Front | 1.7 m (65 in) |
| Rear | 2.2 m (85 in) |

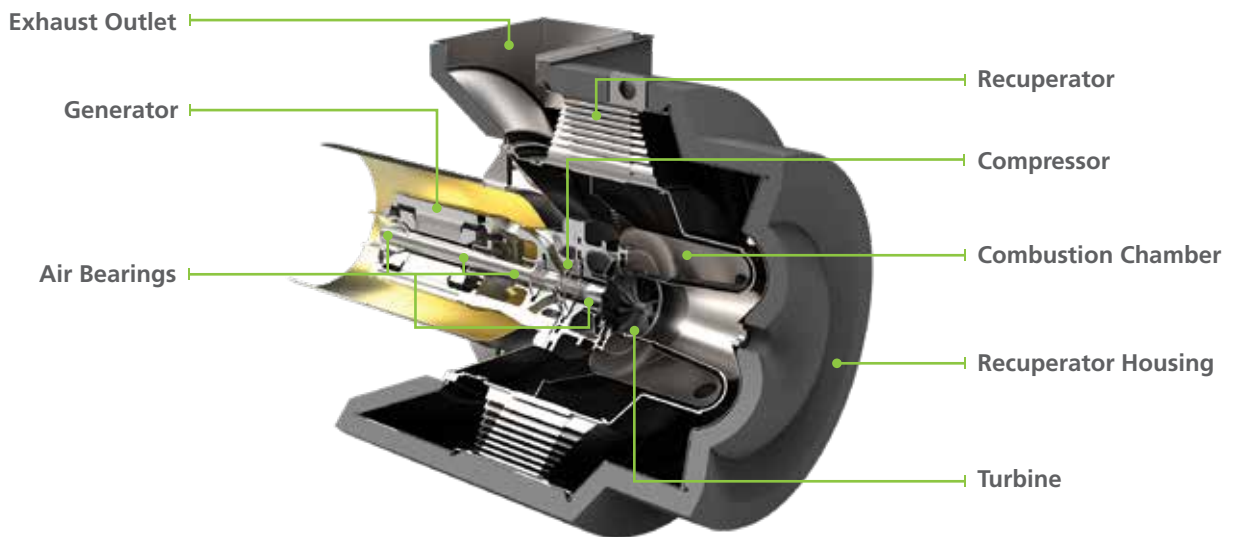
ICHP Heat Recovery⁽⁴⁾

| | |
|-------------------------|-----------------------|
| Hot Water Heat Recovery | 0.9 MW (3.1 MMBtu/hr) |
|-------------------------|-----------------------|

Certifications

- UL 2200 Listed
- CE Certified
- Certified to the following grid interconnection standards: UL 1741-SA, VDE, BDEW, CEI 0-16 and AS4447
- Compliant to California Rule 21

C200 Engine Components



(1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH

(2) Approximate dimensions and weights

(3) Clearance requirements may increase due to local code considerations

(4) Nominal heat recovery using 3 Heat Recovery Modules (HRM). Inlet water temperature of 38°C (100°F) and flow rate of 6.3 l/s (100 gpm) per HRM. Specifications are not warranted and are subject to change without notice.

