Capstone Green Energy

Energy Conversion Products

C600S Power Package

High-pressure Natural Gas

The Signature Series Microturbine provides 600kW of reliable electrical power in one small, ultra-low emission, and highly efficient package.

C600S 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[2]	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]

NOx 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)

Benefits

- 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

Smarter Energy for a Cleaner Future

Dimensions & Weight[3]

Width x Depth x Height	3.0 x 5.8 x 3.0 m (117 x 230 x 119 in)
Weight - Grid Connect Model	11,250 kg (24,800 lbs)
Weight - Dual Mode Model	13,350 kg (29,400 lbs)

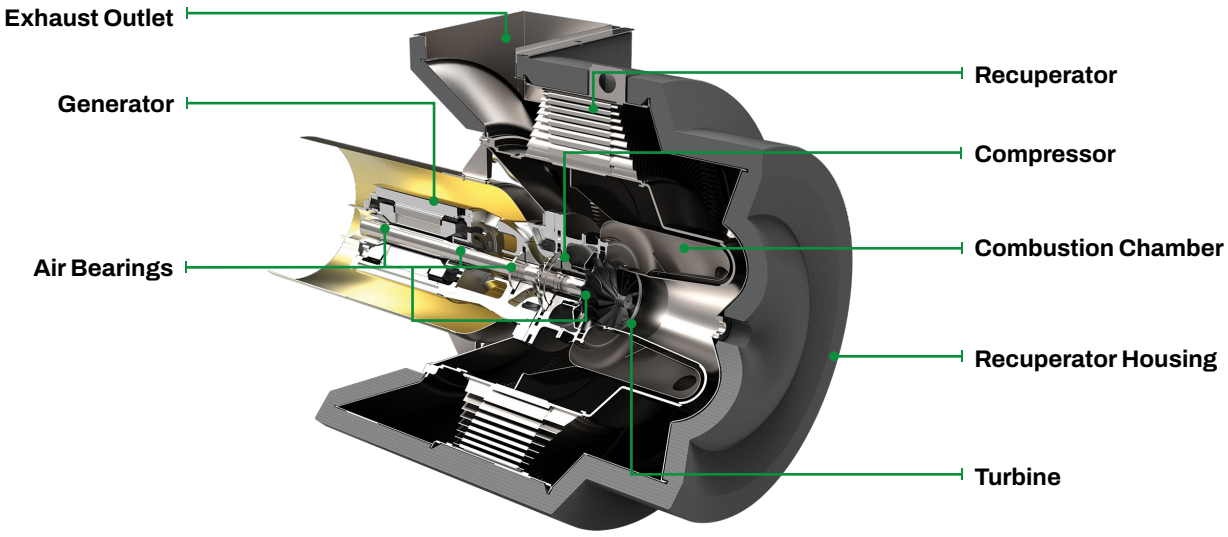
Minimum Clearance Requirements[4]

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)

Certifications

- **UL 2200 Listed**
- **CE Certified**
- **Certified to the following grid interconnections standards: UL 1741-SA, VDE, BDEW, CEI 0-16, AS4777**
- **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) Suitable for use with fuel blends containing up to 30 percent hydrogen gas by volume
(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.

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