C600 600 kW Power Package High-pressure Natural Gas



World's largest air-bearing microturbine produces 600kW of clean, green and reliable power.

- High electrical efficiency over a very wide operating range
- Low maintenance air bearings require no lube oil or coolant
- Ultra-low emissions

Electrical Performance⁽¹

- High availability part load redundancy
- Proven technology with tens of millions of operating hours
- Integrated utility synchronization and protection with a modular design
- 5 and 9 year factory protection plans available
- Remote monitoring and diagnostic capabilities
- Upgradable to 800 kW or 1 MW with field installed Capstone 200 kW power modules
- Internal fuel gas compressor available for low fuel pressure Natural Gas applications

C600 MicroTurbine

Electrical Power Output	600 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	870A RMS @ 400V, grid connect operation		
	720A RMS @ 480V, grid connect operation		
	930A RMS, stand alone operatior	930A RMS, stand alone operation ⁽²⁾	
Electrical Efficiency LHV	33%		
Fuel/Engine Characteristics ⁽¹⁾			
Natural Gas HHV	30.7 to 47.5 MJ/m ³ (825 to 1,275 BTU/scf)		
Inlet Pressure ⁽³⁾	517-552 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⁾	Standard	CARB Version	
NOx Emissions @ 15% O ₂ ⁽⁴⁾	9 ppmvd (18 mg/m³)	4 ppmvd (8 mg/m³)	
NOx/Electrical Output ⁽⁴⁾	0.14 g/bhp-hr (0.4 lb/MWhe)	0.05 g/bhp-hr (0.14 lb/MWhe)	
Exhaust Gas Flow	4.0 kg/s (8.8 lbm/s)	4.0 kg/s (8.8 lbm/s)	
Exhaust Gas Temperature	280°C (535°F)	280°C (535°F)	
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Reliable power when and where you need it. Clean and simple.

Dimensions & Weight⁽⁵⁾

Width x Depth x Height	2.4 x 9.1 x 2.9 m
	(96 x 360 x 114 in)
Weight - Grid Connect Model	11475 kg (25,300 lbs)
Weight - Dual Mode Model	13326 kg (29,380 lbs)

Minimum Clearance Requirements⁽⁶⁾

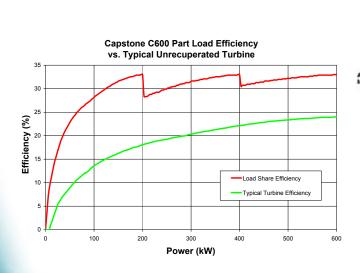
Vertical Clearance	0.6 m (24 in)
Horizontal Clearance	
Left & Right	1.5 m (60 in)
Front	1.5 m (60 in)
Rear	1.8 m (72 in)

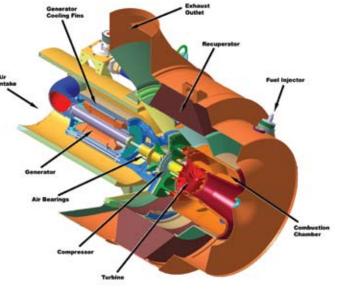
Sound Levels

Acoustic Emissions at Full Load Power Nominal at 10 m (33 ft) 65 dBA

Planned Certifications

- UL 2200 and UL 1741 for natural gas operation under exsisting UL files⁽⁷⁾
- Will comply with IEEE 1547 and will meet statewide utility interconnection requirements for California Rule 21 and the New York State Public Service Commission
- Models will be available with optional equipment for CE marking





C200 Engine

(1) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH With linear load (2)

- (3) Inlet pressure for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV) (4) Emissions for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
- (6)
- Approximate dimensions and weights Clearance requirements may increase due to local code considerations All models are planned to be UL Listed or available with optional equipment for CE marking

ecifications are not warranted and are subject to change without notice.

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