

TA100 Natural Gas



Robust power system achieves ultra-low emissions and reliable electricity from natural gas.

- Versatile applications in grid-connect, stand alone, or multiple unit arrays
- Fully-integrated CHP models available
- 100% step loading during operation
- Modular design affords configuration flexibility and maximizes balance of thermal and electrical needs
- Capable of performing for extended periods without the need for a costly shutdown to perform maintenance
- Internal fuel gas compressor available for low fuel pressure natural gas applications



TA100

Electrical Performance⁽¹⁾

	High Pressure	Onboard Gas Compressor Option
Electrical Power Output	105kW	100kW
Voltage	400–480 VAC	400–480 VAC
Electrical Service	4 wire	4 wire
Frequency	50/60 Hz	50/60 Hz
System Net Output Current	200A RMS per phase ⁽²⁾ 300A RMS neutral	200A RMS per phase ⁽²⁾ 300A RMS neutral
Maximum Block Loading	100%	100%
Electrical Efficiency LHV	29.5%	28%

Fuel/Engine Characteristics⁽¹⁾

	High Pressure	Onboard Gas Compressor Option
Natural Gas HHV	36.4–44.6 MJ/m ³ (976–1195 BTU/scf)	36.4–44.6 MJ/m ³ (976–1195 BTU/scf)
Inlet Pressure ⁽³⁾	551–655 kPa gauge (80–95 psig)	1.4–34.5 kPa gauge (0.2–5 psig)
Fuel Flow HHV	1,386 MJ/hr (1,314,500 BTU/hr)	1,386 MJ/hr (1,314,500 BTU/hr)
Heat Rate LHV	11,380 BTU/kWh	11,950 BTU/kWh

Exhaust Characteristics⁽¹⁾

	High Pressure	Onboard Gas Compressor Option
Exhaust Gas Flow	0.84 kg/s (1.85 lbm/s)	0.84 kg/s (1.85 lbm/s)
Exhaust Gas Temperature	302°C (575°F)	302°C (575°F)

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

TA100 ICHP Heat Recovery (Optional)⁽⁴⁾

Integrated Heat Recovery Module Type	Copper Core
Hot Water Heat Recovery	180kW (614,000 BTU/hr)
Rated Water Outlet Temperature	60°C (140°F)
Rated Water Flow	60 GPM (3.8 l/s)
Total System Efficiency, LHV	80%

Dimensions & Weight⁽⁵⁾

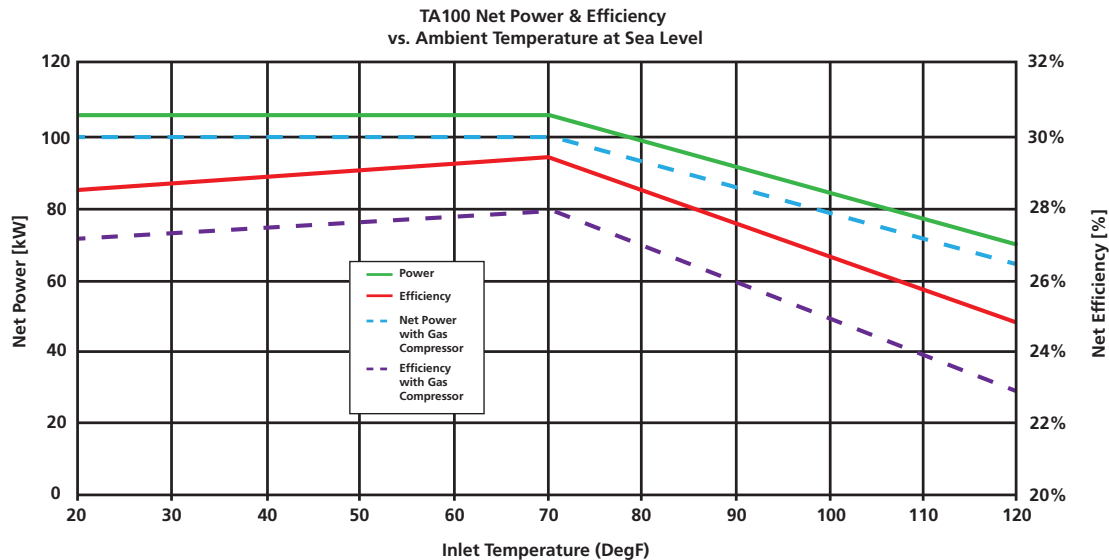
Width x Depth x Height ⁽⁶⁾	0.85 x 3.00 x 2.30 m (33.10 x 118.10 x 88.60 in)
Weight	2,040 kg (4500 lb)

Minimum Clearance Requirements⁽⁷⁾

Vertical Clearance	0.55 m (21 in)
Horizontal Clearance	
Left & Right	0.81 m (32 in)
Front	1.08 m (42 in)
Rear	1.32 m (52 in)

Sound Levels

Acoustic Emissions at Full Load Power	
Nominal at 10 m (33 ft)	62 dBA



- (1) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
 - (2) With linear load
 - (3) Inlet pressure for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 - (4) Heat recovery with water inlet temperature of 38°C (100°F)
 - (5) Approximate dimensions and weight
 - (6) Height dimensions are to the top of the air inlet hood
 - (7) Clearance requirements may increase due to local code considerations
- Specifications are not warranted and are subject to change without notice*

