

General Specifications

Taurus™ 60 Gas Turbine

- Industrial, Single-Shaft
- Axial Compressor
 - 12 Stage
 - Variable Inlet Guide Vanes
 - Pressure Ratio: 12.2:1
 - Inlet Airflow:
21.5 kg/sec (47.3 lb/sec)
 - Vertically Split Case
- Combustion Chamber
 - Annular Type
 - Conventional or Lean-Premixed, Dry, Low Emission (SoLoNOx™)
 - 12 Fuel Injectors
 - Torch Ignitor System
- Turbine
 - 3 Stage, Reaction
 - Max. Speed: 14,950
- Bearings
 - Journal: Tilting Pad
 - Thrust, Active: Tilting Pad
 - Thrust, Inactive: Fixed Tapered Land
- Vibration Transducer Type
 - Velocity
 - Proximity Probes

Main Reduction Drive

- Epicyclic Type
- 1500 or 1800 rpm
- Acceleration Vibration Transducer

Generator

- Salient Pole, 3 Phase, 6 Wire, Wye Connected, Synchronous, with PMG Exciter

- Construction Options
 - Open Drip Proof
 - Totally Enclosed Water or Air Cooled
- Sleeve Bearings
- Solid-State Voltage Regulation with Permanent Magnet Generator (Exciter)
- Insulation/Rise Option
 - NEMA Class F with B Rise
- Voltages: 3300 to 13,800 Volts
- Frequency: 50 or 60 Hz
- Vibration Transducer Type
 - Velocity
 - Proximity Probes

Key Package Features

- Base Frame with Drip Pans
- 316L Stainless Steel Piping
- Compression-Type Tube Fittings
- Digital Display Panel
- Electrical System Options
 - NEC Class I, Group D, Div. 1
 - CENELEC Zone 2
- Turbotronic™ Control System
 - ControlLogix Processor
 - Onskid or Freestanding Control Console
 - Color Video Display
 - Gas Turbine and Package Temperature Monitoring
 - CGCM Module
 - Vibration Monitoring
 - Auto Synchronizing
 - Historical Displays

- Control Options
 - 120-VDC Control Battery/Charger
 - Serial Link Supervisory Interface
 - Turbine Performance Map
 - Printer/Logger
 - Field Programming
- Start Systems
 - Direct Drive AC
- Fuel Systems
 - Natural Gas
 - Dual (Gas/Liquid)
 - Electric Fuel Control
- Integrated Lube Oil System
 - Turbine-Driven Accessories
 - Tank Vent Separator
 - Flame Trap
 - Oil Cooler (Optional)
 - Oil Heater (Optional)
- Axial Compressor Cleaning Systems
 - On-Crank
 - On-Crank/On-Line (Optional)
 - Cleaning Tank
- Air Inlet and Exhaust System Options
- Enclosure and Associated Options
- Factory Testing of Turbine and Package
- Documentation
 - Drawings
 - Quality Control Data Book
 - Inspection and Test Plan
 - Test Reports
 - Operation and Maintenance Manuals

Performance

Output Power Continuous Duty	5670 kW
Heat Rate	11 430 kJ/kWe-hr (10,830 Btu/kWe-hr)
Exhaust Flow	78 370 kg/hr (172,770 lb/hr)
Exhaust Temp.	510°C (950°F)

Nominal Rating – ISO
At 15°C (59°F), sea level

No inlet/exhaust losses

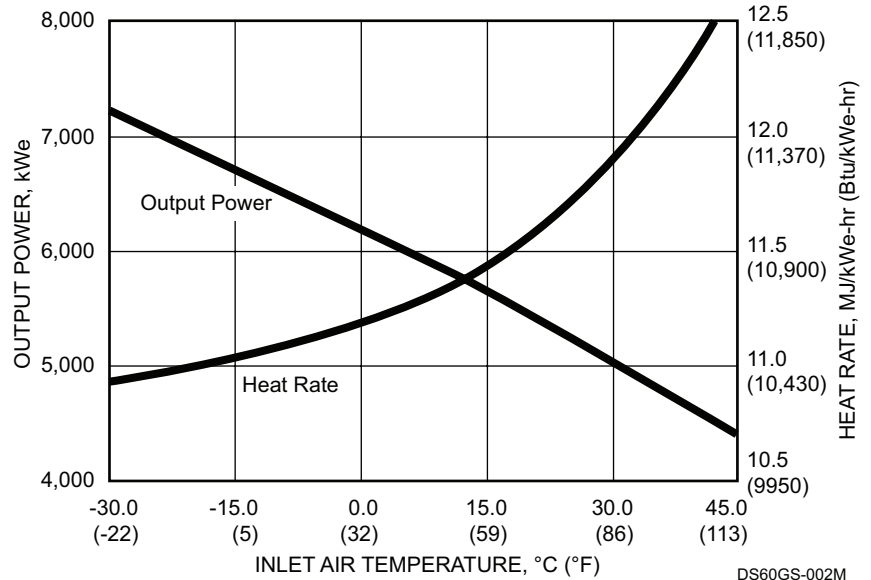
Relative humidity 60%

Natural gas fuel with
LHV = 35 MJ/nm³ (940 Btu/scf)

No accessory losses

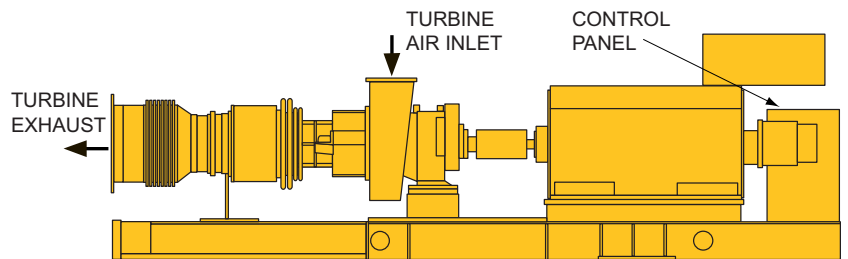
Engine efficiency: 31.5% (measured at
generator terminals)

Available Power



Package Dimensions

- Length: 9.8 m (32' 2")
- Width: 2.6 m (8' 6")
- Height: 3.2 m (10' 5")
- Typical Weight: 37 920 kg (83,600 lb)



*Dry weight, enclosed height