

## General Specifications

### Taurus™ 60 Gas Turbine

- Industrial, Two Shaft
- Axial Compressor
  - 12 Stage
  - Variable Inlet Guide Vanes
  - Pressure Ratio: 12.2:1
  - Inlet Airflow:
    - 21.3 kg/sec (47.0 lb/sec)
  - Vertically Split Case
- Combustion Chamber
  - Annular Type
  - Conventional or Lean-Premixed, Dry, Low Emission (SoLoNOx™)
  - 12 Fuel Injectors
  - Torch Ignitor System
- Gas Producer Turbine
  - 2 Stage, Reaction
  - Max. Speed: 15,000 rpm
- Power Turbine
  - 2 Stage, Reaction
  - Max. Speed: 14,300 rpm
- Bearings
  - Journal: Tilting Pad
  - Thrust, Active: Tilting Pad
  - Thrust, Inactive: Fixed Tapered Land
- Coatings
  - Compressor: Inorganic Aluminum
  - Turbine Nozzles and Blades: Precious Metal Diffusion Aluminide
- Vibration Transducer Type
  - Velocity
  - Proximity Probes

## Key Package Features

- Driver Skid with Drip Pans
- Driven Equipment Skid
  - Compressor
  - Compressor Auxiliary Systems
- 316L Stainless Steel Piping ≤ 4"
- Compression-Type Tube Fittings
- Electrical System Options
  - NEC Class I, Group D, Div. 1
  - CENELEC Zone 1
- *Turbotronic™* Microprocessor Control System
  - Freestanding Control Console
  - Color Video Display
  - Vibration Monitoring
- Control Options
  - 24-VDC Control Battery/Charger System
  - Gas Turbine and Package Temperature Monitoring
  - Serial Link Supervisory Interface
  - Turbine Performance Map
  - Compressor Performance Map
  - Historical Displays
  - Printer/Logger
  - Predictive Emissions Monitoring
  - Process Controls
  - Compressor Anti-Surge Control
  - Field Programming
- Start Systems
  - Pneumatic
  - Direct Drive AC
- Fuel System: Natural Gas
- Integrated Lube Oil System
  - Turbine-Driven Accessories
- Oil System Options
  - Oil Cooler
  - Oil Heater
  - Tank Vent Separator
  - Flame Trap
- Axial Compressor Cleaning Systems
  - On-Crank
  - On-Crank/On-Line
  - Stationary Cleaning Tank
- Gearbox (if applicable)
  - Speed Increaser
  - Speed Decreaser
- 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 Instruction Manual

### Performance

Output Power	5740 kW (7700 hp)
Heat Rate	11 265 kJ/kW-hr (7965 Btu/hp-hr)
Exhaust Flow	77 880 kg/hr (171,690 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%

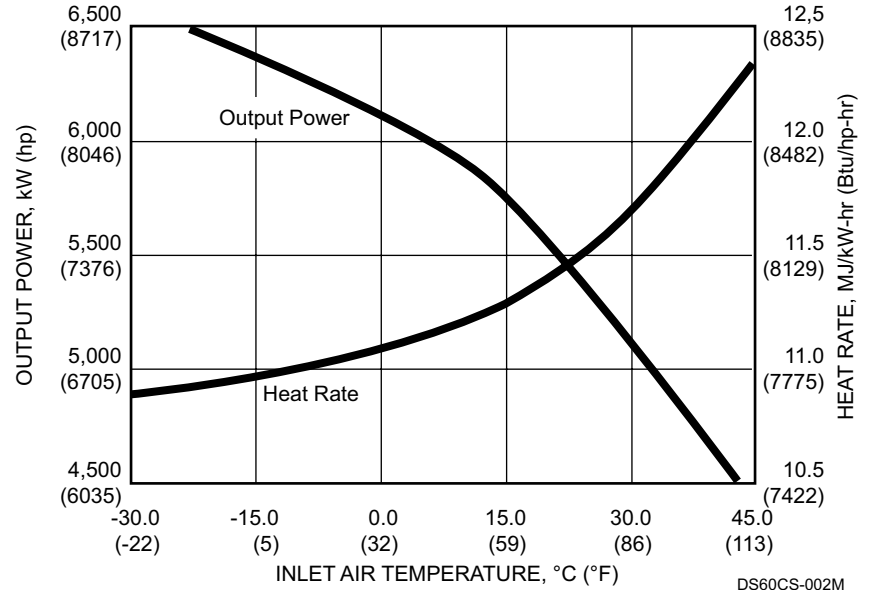
Natural gas fuel with  
LHV = 35 MJ/nm<sup>3</sup> (940 Btu/scf)

Optimum power turbine speed

AC-driven accessories

Engine efficiency: 32%

### Available Power



DS60CS-002M

### Package Dimensions\*

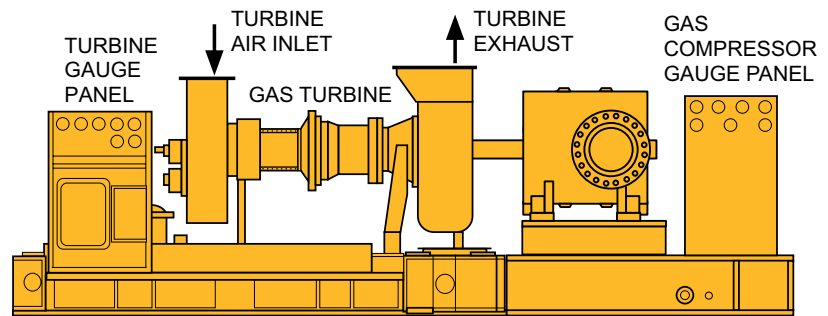
Length: 6.0 m (19' 9")

Width: 2.5 m (8' 1")

Height: 2.7 m (8' 11")

Typical Weight: 15 420 kg (34,000 lb)

\*Driver package only



DS60CS-003M