

## General Specifications

### Gas Turbine

- *Taurus*<sup>™</sup> 60
- Industrial, Single-Shaft
- Axial Compressor
  - 12-Stage
  - Compression Ratio: 12.5:1
- Combustion Chamber, Annular Type
  - Standard: Conventional Combustion
  - Available: Lean-Premixed, Dry, Low Emission (*SoLoNOx*<sup>™</sup>)
- Turbine
  - 3-Stage, Reaction

### Main Reduction Drive

- Epicyclic
  - 1500 or 1800 rpm (50 or 60 Hz)

### Generator

- Salient Pole, 3 Phase, 6 Wire, Wye Connected, Synchronous with Brushless Exciter
- Permanent Magnet Generator
- Open Drip-Proof Construction
- Continuous Duty Rating
  - Standard: NEMA Class F Insulation with F Rise
  - Available: NEMA Class F Insulation with B Rise
- Standard Voltage Options:
  - 50 Hz: 3300, 6600, 11,000 V;
  - 60 Hz: 4160, 6900, 12,470, 13,200, 13,800 V

### Key Package Features

- Steel Base Frame with Drip Pans
  - Standard: Open Unenclosed Package
  - Available: Weatherproof Acoustic Enclosure
- Direct-Drive AC Start System
- 120 VDC Battery/Charger System

- Standard Fuel System Options:
  - Natural Gas Fuel, Liquid Fuel, Dual Fuel (Gas/Liquid)
- Integrated Lube Oil System
  - Standard Features:
    - Turbine-Driven Lube Pump
    - Pre/Post Lube Pump
    - Backup Post Lube Pump
    - Air/Oil Cooler
    - Integral Lube Oil Tank
    - Lube Oil Tank Heater
    - Simplex Lube Oil Filter
    - Oil Mist Eliminator
  - Available Lube Oil System Options:
    - Water/Oil Cooler
    - Duplex Lube Oil Filters
- Factory Testing of Turbine and Package
- *Turbotronic*<sup>™</sup> 4 On-skid Gas Turbine and Generator Control System
  - System Features:
    - Combination Generator Control Module with Load Share, Auto Synchronization, Voltage Control
    - Standard Display with Discrete Event Log, Strip Chart, Historical Trend, Maintenance Screen
    - Vibration and Temperature Monitoring
    - English Display Text and Labels
  - Available Control System Options:
    - Auxiliary and Remote Display/Control Terminals
    - Turbine Performance Map
    - Spanish, Portuguese, German, French, or Simplified Chinese Display Text and Labels
- KW Control
- KW Import Control
- KVAR/Power Factor Control
- ControlNet Redundant Media, Ethernet, Data Highway Plus, or Modbus RS232C/422/485 Supervisory Interface
- Heat Recovery Application Interface
- Unfired Waste Heat Recovery System Control
- Multi-Unit Applications: Load Shed Control, Import/Export, or kW/KVAR Control Panels
- Printer/Logger

## Optional Pre-Engineered Solutions

- Multi-Unit Applications: Load Shed Control, Import/Export, or kW/KVAR Control Panels
- Operation with Alternate Fuels (such as naphtha, propane, low Btu gas)
- Liquid Fuel Monitoring, Boost Pump, and Coalescer Filter
- Ancillary Equipment
  - Inlet and Exhaust Silencers
  - Self-Cleaning or Prefilter/Barrier Air Inlet Filter
  - Inlet Evaporative Cooler or Chiller Coils
- Neutral Grounding Resistor or Transformer
- Switchgear and Generator Protective Relay
- Motor Control Center with Automatic Transfer Switch

### Nominal Performance

|               |   |
|---------------|---|
| Output Power  | 5670 kW                                 |
| Heat Rate     | 11 425 kJ/kWe-hr<br>(10,830 Btu/kWe-hr) |
| Exhaust Flow  | 78 385 kg/hr<br>(172,810 lb/hr)         |
| Exhaust Temp. | 510°C<br>(950°F)                        |

### Application Performance

|                       |                                   |
|-----------------------|-----------------------------------|
| Steam (Unfired)       | 13.5 tonnes/hr<br>(29,800 lb/hr)  |
| Steam (Fired)         | 59.2 tonnes/hr<br>(130,500 lb/hr) |
| Chilling (Absorption) | 3.0 Refrigeration Tons            |

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

No inlet/exhaust losses

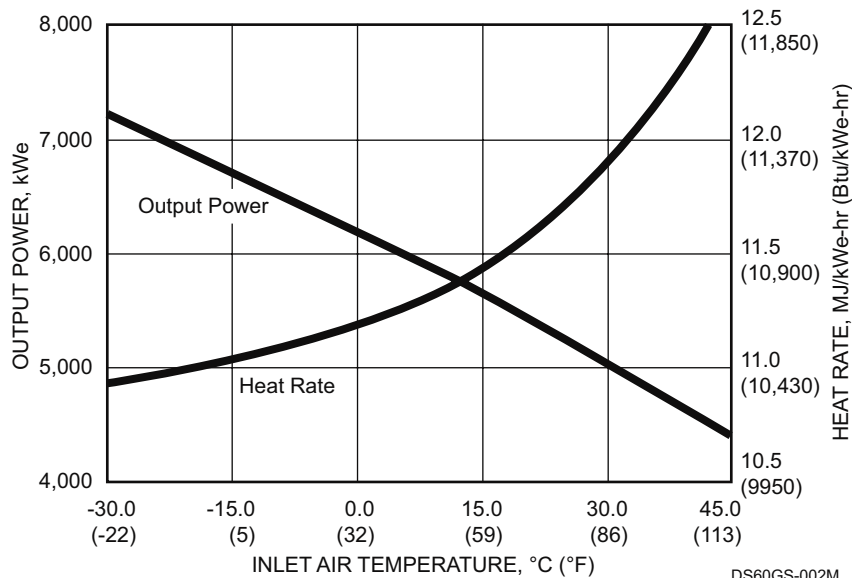
Relative humidity 60%

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

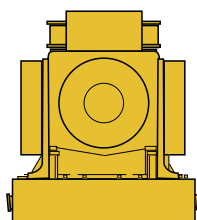
No accessory losses

Standard and high ambient ratings available

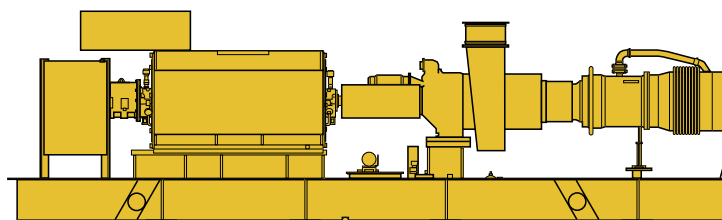
### Available Power



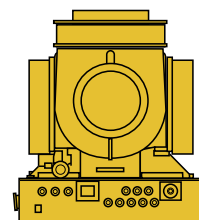
### Typical Service Connections



Forward End



Left Side



Aft End

DS60PG-003M

### Package Dimensions

|                 |                       |
|-----------------|-----------------------|
| Length:         | 9.8 m (32' 0")        |
| Width:          | 2.7 m (8' 11")        |
| Height:         | 3.0 m (9' 11")        |
| Approx. Weight: | 33 870 kg (74,650 lb) |

### Left Side

- Lube Oil Tank and Cooler Vents
- Lube Oil Cooler Connection
- Turbine Control Box
- Drains: Oil Tank, Oil Filter
- Turbine and Generator Drip Pan Drain

### Right Side

- Generator Control Box
  - Turbine and Generator Drip Pan Drain
- ### Forward End
- AC Power, Lube Oil Tank Heater
  - AC Power, Starter Motor
  - Package Ground
- ### Aft End
- DC Power, Backup Lube Pump

- Drains: Air Inlet Duct, Fuel, Combustor, Exhaust Diffuser
- Fuel Inlet
- Package Auxiliary Air Supply
- Turbine Cleaning
- AC Power: Pre/Post Lube Oil Pump, Liquid Fuel Pump (for Liquid Fuel Packages)
- Package Ground