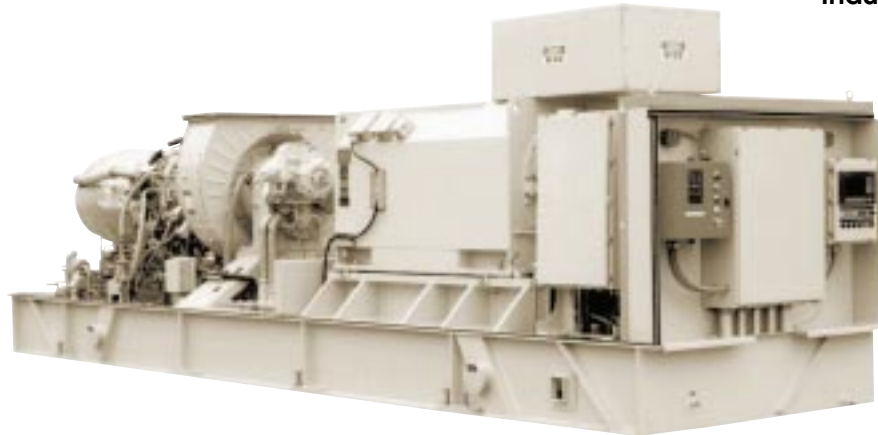


Industrial/Utility Grade



## Features

- Industrial Gas Turbine Package
- Compact, Integrated Package Providing Ease of Installation
- Factory Tested
- Dry, Low Emission (*SoLoNOx*<sup>™</sup>) Combustion Available
- Onskid Microprocessor-Control with Auto Sync Capability
- Multiple Fuel Capability

## Package Arrangement

### Gas Turbine

- *Taurus*<sup>™</sup> 60 Industrial, Single-Shaft
- Axial Compressor – 12 Stages
- Annular Combustion Chamber
  - 12 Fuel Injectors
- Coatings
  - Compressor: Inorganic Aluminum
  - Turbine and Nozzle Blades: Precious Metal Diffusion Aluminide
- Proximity Probe Vibration Transducers

### Main Reduction Drive

- Epicyclic
  - 1800 or 1500 rpm
  - Acceleration Vibration Transducers

### Generator

- Salient Pole, 3 Phase, 6 Wire, Wye Connected, Synchronous with Brushless Exciter
- Open Drip-Proof Construction
- Sleeve Bearings
- Velocity Vibration Transducers
- Solid-State Voltage Regulation with Permanent Magnet Generator
- NEMA Class F Insulation with F Rise
- Continuous Duty Rating

### Package

- Steel Base Frame with Drip Pans
- Direct-Drive AC Start System
- Natural Gas Fuel System

- Control System
  - Microprocessor-Based PLC
  - Generator Control
  - Vibration and Temperature Monitoring
  - Auto Synchronizing
- Integrated Lube Oil System
  - Turbine-Driven Lube Pump
  - AC Pre/Post Lube Pump
  - Backup Lube Pump
  - Air/Oil Cooler
  - Integral Lube Oil Tank
  - Lube Oil Tank Heater
  - Lube Oil Filter
- Documentation
  - Drawings
  - Quality Control Data Book
  - Inspection and Test Plan
  - Test Reports
  - O&M Manuals
- Factory Testing of Turbine and Package

### Optional Equipment/Services

- Generator Options:
  - WP11, TEWAC
  - Standby Duty Rating
  - Standard Voltages: 3300, 6600, 11,000 50 Hz; 4160, 6900, 12,470, 13,800 60 Hz
- Fuel Systems
  - Liquid
  - Dual (Gas/Liquid)

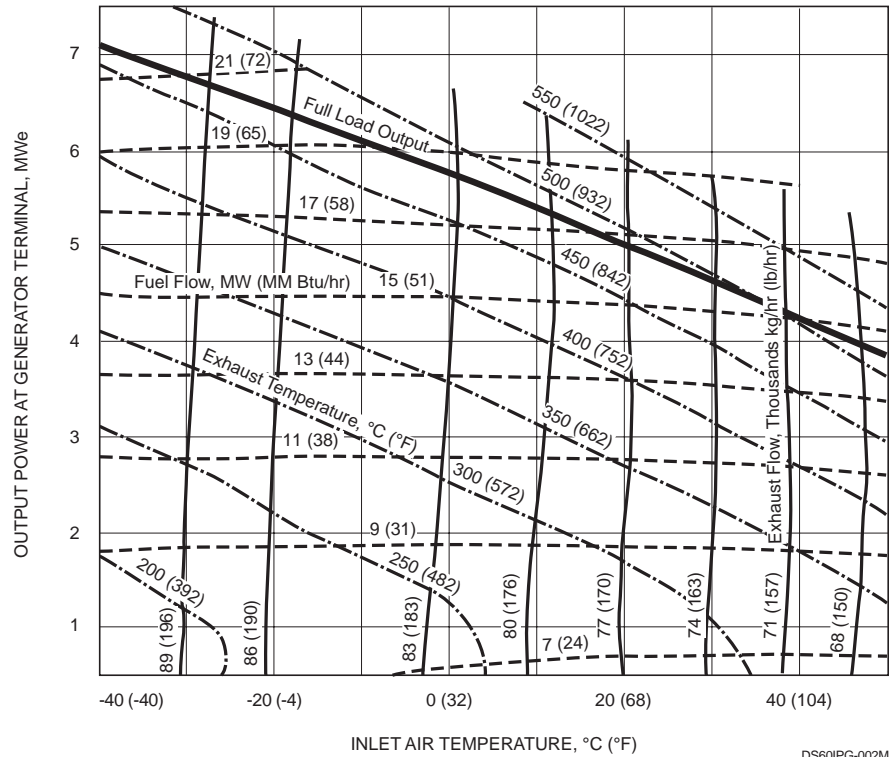
- *SoLoNOx*, Dry, Low Emission
- Alternate Fuels (such as naphtha, propane, low Btu)
- Lube Oil System
  - Water/Oil Lube Cooler
  - Electrostatic Demister
  - Duplex Lube Oil Filters
- Control System
  - Remote Display/Control Terminal
  - Heat Recovery Application Interface
  - Serial Link Supervisory Interface
  - KW Control
  - KVAR/Power Factor Control
  - Turbine Performance Map
  - Historical Displays
  - Printer/Logger
  - Predictive Emissions Monitoring
  - Field Programming Terminal
- Accessory Equipment
  - 24-VDC Battery/Charger System
  - Turbine Cleaning System: On-Crank and On-line
  - Package Lifting Kit
- Weatherproof Acoustic Enclosure
- Ancillary Equipment: Various Air Inlet and Exhaust Systems
  - Inlet and Exhaust Silencers
  - Self-Cleaning or Prefilter/Barrier Air Inlet Filter
  - Inlet Evaporative Cooler
  - Inlet Chiller Coils
  - Ancillary Support Frame

### Nominal Performance\*

Output Power, kW ISO: 15°C (59°F), sea level	5200
Heat Rate, kJ/kWe-hr (Btu/kWe-hr)	11 882 (11,263)
Exhaust Flow, kg/hr (lb/hr)	79 284 (174,798)
Exhaust Temperature, °C (°F)	486 (906)

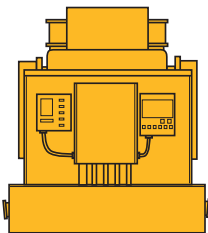
\* No inlet or exhaust losses  
Relative humidity 60%  
Natural gas fuel with  
LHV = 31.5 to 43.3 MJ/nm<sup>3</sup>  
(800 to 1100 Btu/scf)

### Available Performance

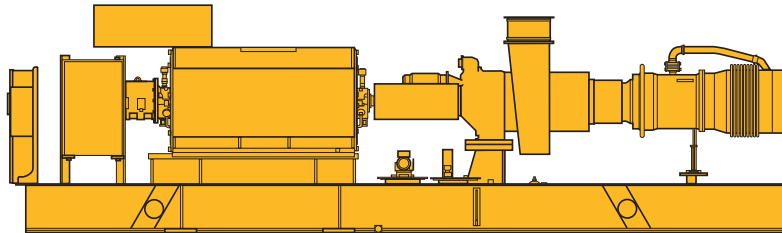


DS60IPG-002M

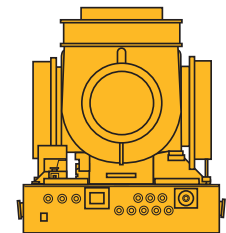
### Typical Service Connections



Forward End



Left Side



Aft End

DS60IPG-003M

#### Forward End

- Turbine Control Box

Length:	9754 mm (32' 0")
Width:	2438 mm (8' 0")
Height:	2591 mm (8' 6")
Approx. Weight:	29 300 kg (64,590 lb)

#### Left Side

- Lube Oil: Drain, Vent, Cooler
- Generator Control Box, Power
- Generator Drip Pan Drain
- AC Power
  - Lube Tank Heater
  - Pre/Post Lube Pump
  - Backup Lube Pump

#### Right Side

- AC Power - Start Motor
- Generator Monitor Box

#### Aft End

- Fuel Inlet
- Turbine Cleaning
- Fuel Filter, Combustor and Exhaust Collector Drains
- Auxiliary Air (optional) for:
  - Liquid Fuel Atomizing
  - Self-Cleaning Filter
- AC Power
  - Liquid Fuel Pump (optional)
- Package Ground

Solar Turbines Incorporated  
P.O. Box 85376  
San Diego, CA 92186-5376

### FOR MORE INFORMATION

Telephone: (+1) 619-544-5352  
Telefax: (+1) 619-544-2633  
Telex: 695045  
Internet: [www.solarturbines.com](http://www.solarturbines.com)