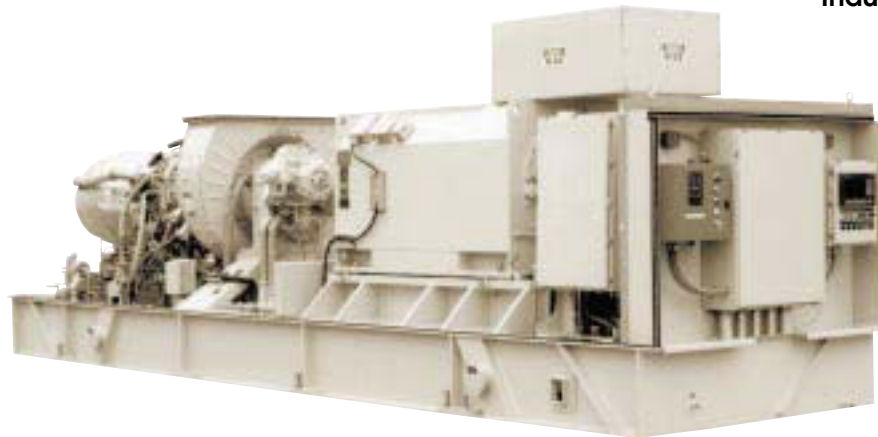


Industrial/Utility Grade



Features

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

Package Arrangement

Gas Turbine

- *Centaur*[®] 40 Industrial, Single-Shaft
- Axial Compressor – 11 Stages
- Annular Combustion Chamber
 - 10 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:
 - WPII, 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)

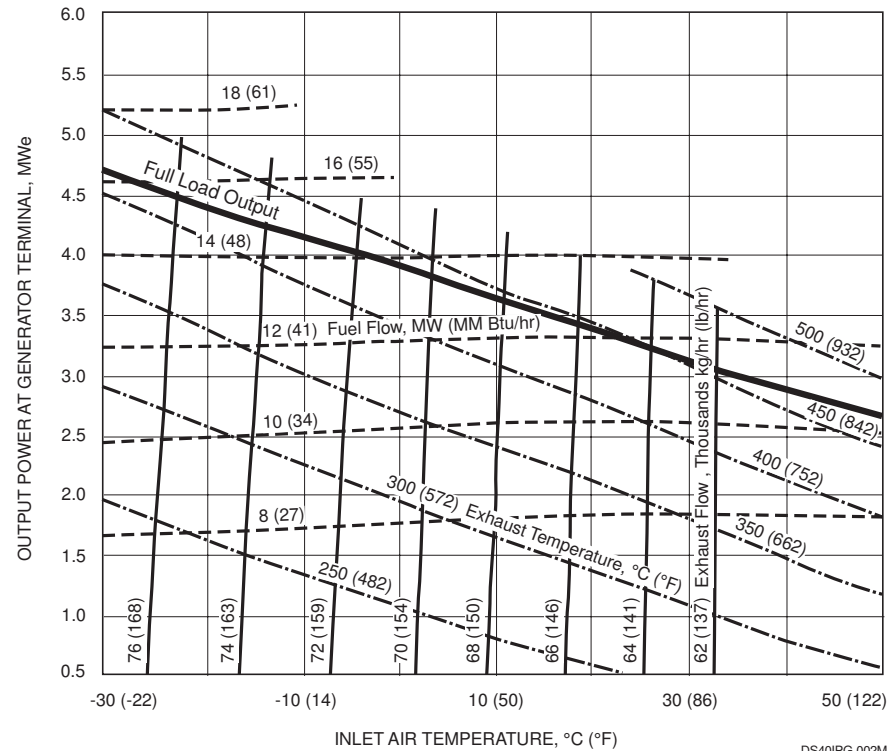
- *SoLoNOx*, Dry, Low Emission
- Alternate Fuels (such as naphtha, propane, low Btu)
- Lube Oil System
 - Water/Oil Lube Cooler
 - Electrostatic Demister
 - Duplex Lube Oil Filters
- Control System
 - Remote Display/Control Terminal
 - Heat Recovery Application Interface
 - Serial Link Supervisory Interface
 - 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	3515
Heat Rate, kJ/kWe-hr (Btu/kWe-hr)	12 912 (12,240)
Exhaust Flow, kg/hr (lb/hr)	67 004 (147,718)
Exhaust Temperature, °C (°F)	437 (819)

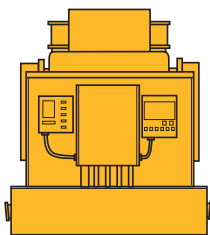
* No inlet or exhaust losses
Relative humidity 60%
Natural gas fuel with
LHV = 31.5 to 43.3 MJ/nm³
(800 to 1100 Btu/scf)

Available Performance

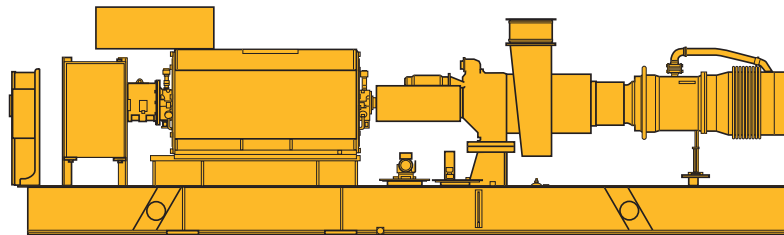


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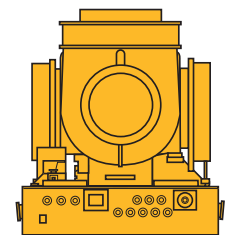
Typical Service Connections



Forward End



Left Side



Aft End

DS40IPG-003M

Forward End

- Turbine Control Box

Length:	9754 mm (32' 0")
Width:	2438 mm (8' 0")
Height:	2591 mm (8' 6")
Approx. Weight:	26 015 kg (57,350 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

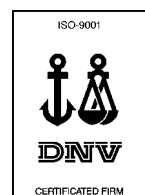
- Fuel Inlet
- Turbine Cleaning
- Fuel Filter, Combustor and Exhaust Collector Drains
- Auxiliary Air (optional) for:
 - Liquid Fuel Atomizing
 - Self-Cleaning Filter
- AC Power
 - Liquid Fuel Pump (optional)
- Package Ground

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San Diego, CA 92186-5376

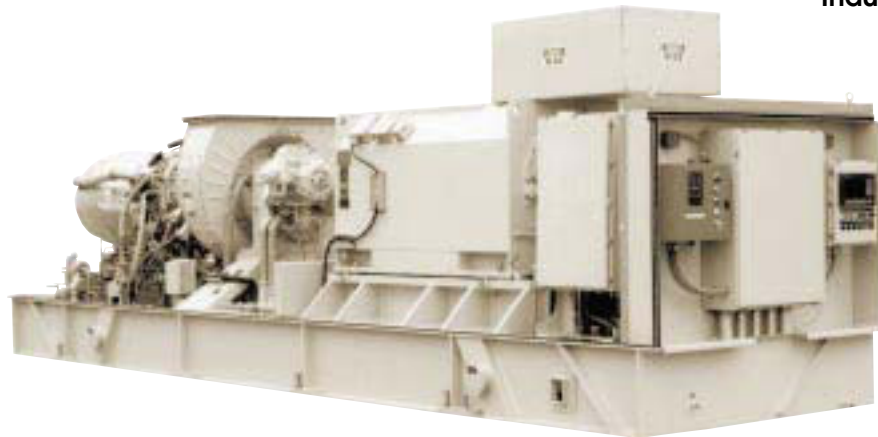
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FOR MORE INFORMATION

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



Industrial/Utility Grade



Features

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

Package Arrangement

Gas Turbine

- *Centaur*[®] 50 Industrial, Single-Shaft
- Axial Compressor – 11 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
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 - 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:
 - WPII, 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)

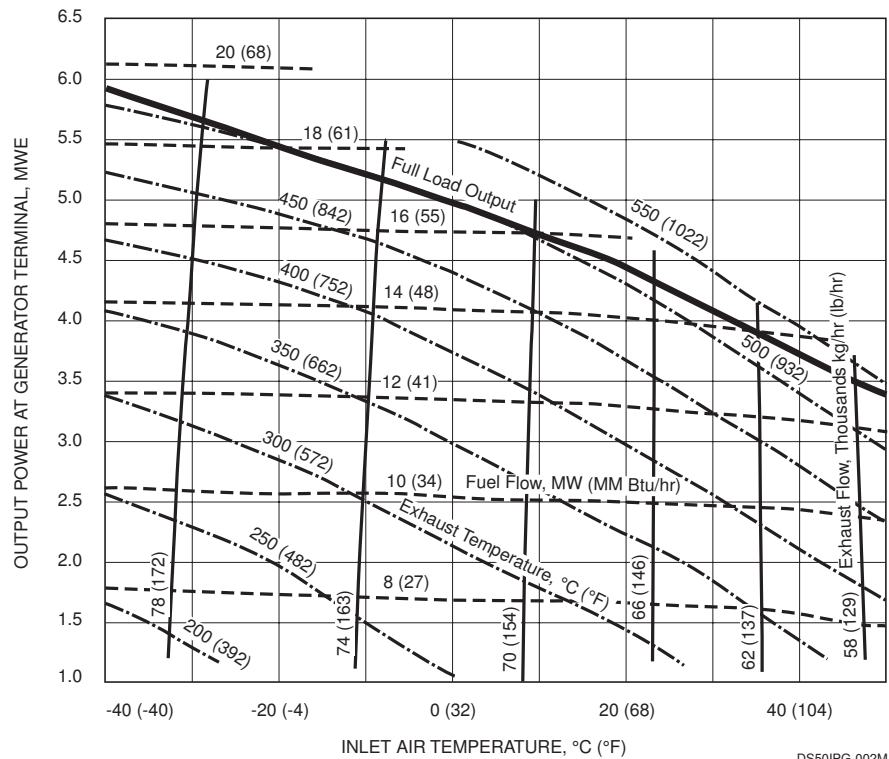
- *SoLoNOx*, Dry, Low Emission
- Alternate Fuels (such as naphtha, propane, low Btu)
- Lube Oil System
 - Water/Oil Lube Cooler
 - Electrostatic Demister
 - Duplex Lube Oil Filters
- Control System
 - Remote Display/Control Terminal
 - Heat Recovery Application Interface
 - Serial Link Supervisory Interface
 - 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	4600
Heat Rate, kJ/kWe-hr (Btu/kWe-hr)	12 269 (11,628)
Exhaust Flow, kg/hr (lb/hr)	68 680 (151,410)
Exhaust Temperature, °C (°F)	509 (949)

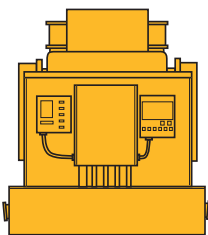
* No inlet or exhaust losses
Relative humidity 60%
Natural gas fuel with
LHV = 31.5 to 43.3 MJ/nm³
(800 to 1100 Btu/scf)

Available Performance

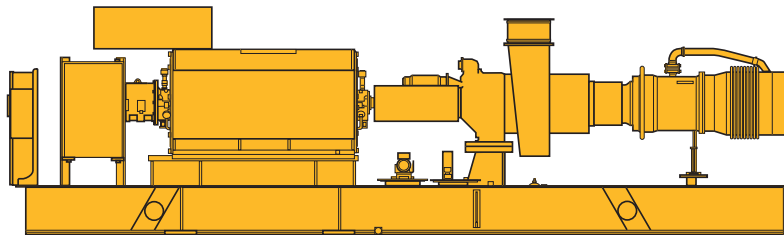


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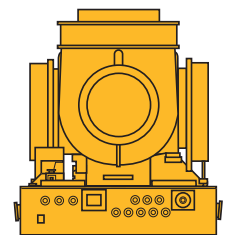
Typical Service Connections



Forward End



Left Side



Aft End

DS50IPG-003M

Forward End

- Turbine Control Box

Length:	9754 mm (32' 0")
Width:	2438 mm (8' 0")
Height:	2591 mm (8' 6")
Approx. Weight:	27 430 kg (60,470 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

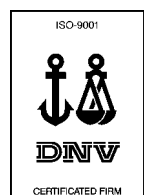
- Fuel Inlet
- Turbine Cleaning
- Fuel Filter, Combustor and Exhaust Collector Drains
- Auxiliary Air (optional) for:
 - Liquid Fuel Atomizing
 - Self-Cleaning Filter
- AC Power
 - Liquid Fuel Pump (optional)
- Package Ground

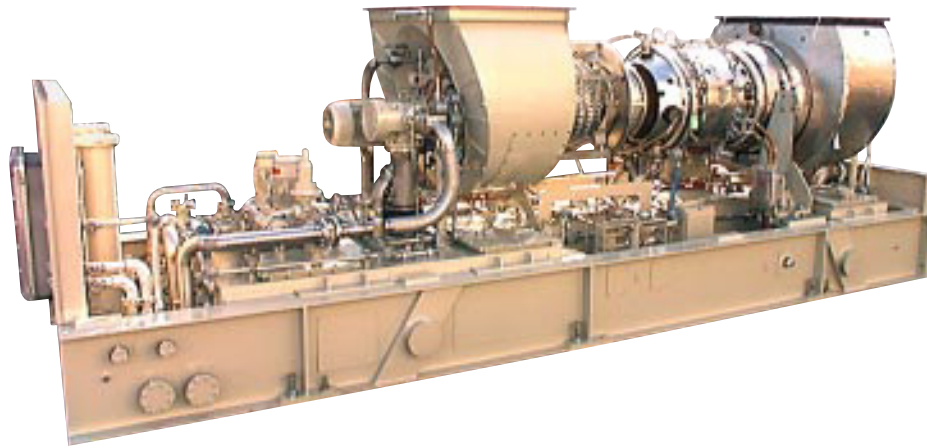
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FOR MORE INFORMATION

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





General Specifications

Mars® 100 Gas Turbine

- Industrial, Two-Shaft
- Axial Compressor
 - 15-Stage
 - Variable Inlet Guide Vanes
 - Compression Ratio: 17.4:1
 - Inlet Airflow:
 - 41.3 kg/sec (91.0 lb/sec)
 - Max. Speed: 11,168 rpm
 - Vertically Split Case
- Combustion Chamber
 - Annular-Type
 - Conventional or Lean-Premixed, Dry, Low Emission (SoLoNO_x™)
 - 21 Fuel Injectors (Conventional)
 - 14 Fuel Injectors (SoLoNO_x)
 - Torch Ignitor System
- Gas Producer Turbine
 - 2-Stage, Reaction
 - Max. Speed: 11,168 rpm
- Power Turbine
 - 2-Stage, Reaction
 - Max. Speed: 9500 rpm
- Bearings
 - Journal: Tilting-Pad
 - Thrust, Active: Tilting-Pad
 - Thrust, Inactive: Fixed Tapered Land
- Coatings
 - Compressor Stators and Drum: Inorganic Aluminum
 - Turbine and Nozzle Blades: Precious Metal Diffusion Aluminide
- Vibration Transducer Type
 - 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
- Gauge Panel Options
 - Fluid Gauges
 - Digital Display
- Electrical System Options
 - NEC, Class I, Group D, Div 1 or 2
 - GENELEC, Zone 1
- *Turbotronic*™ Microprocessor Control System
 - Freestanding Control Console
 - Color Video Display
 - Vibration Monitoring
- Control Options
 - 24-VDC Control Battery/Charger System
 - 120-VDC Accessory 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 Systems
 - Natural Gas
 - Dual (Gas/Liquid)
- Integrated Lube Oil System
 - Turbine-Driven Accessories
 - AC Motor-Driven Accessories
- Oil System Options
 - Oil Cooler
 - Oil Heater
 - Tank Vent Separator
 - Flame Trap
- Axial Compressor Cleaning Systems
 - On-Crank
 - On-Crank/On-Line
 - Portable 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 Manuals

Performance

No Inlet/Exhaust Losses,
Relative Humidity 60%,
Natural Gas Fuel with
LHV = 31.5 to 43.3 MJ/nm³
(800 to 1100 Btu/scf)
Optimum Power Turbine Speed
AC-Driven Accessories
Engine Efficiency: 34.0%

Nominal Rating - ISO
At 15°C (59°F), Sea Level

Output Power
11 185 kW (15,000 hp)

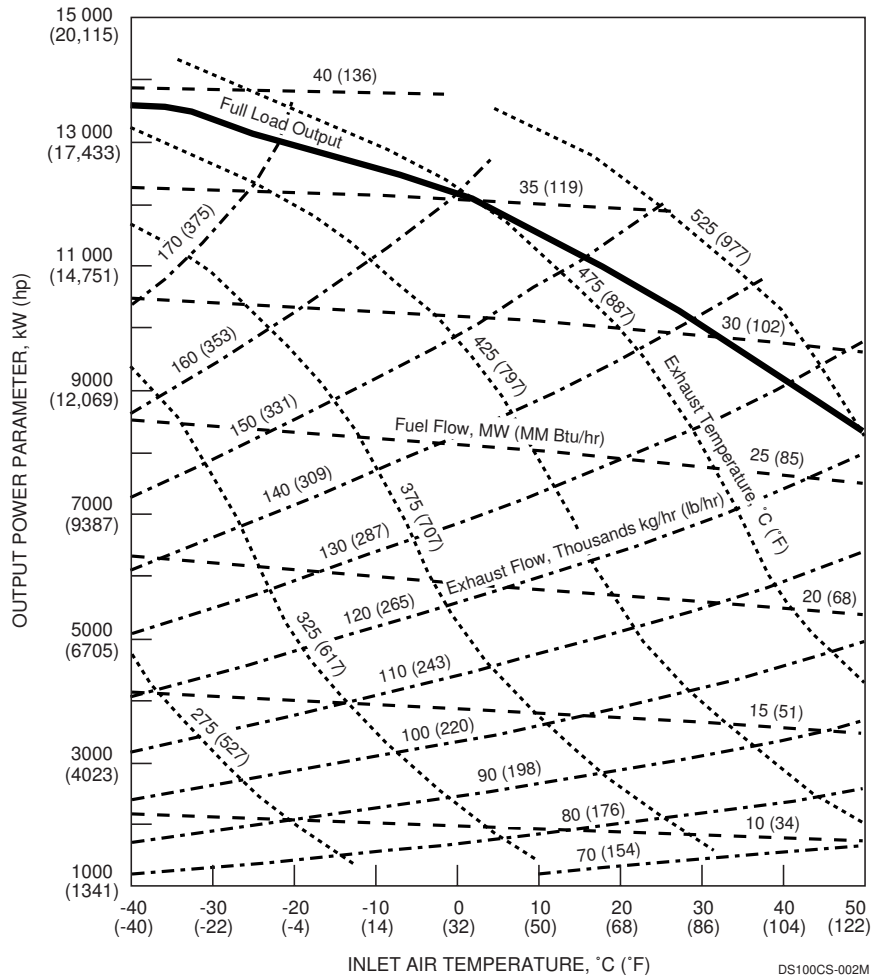
Heat Rate
10 545 kJ/kW-hr (7490 Btu/hp-hr)

Exhaust Flow
150 700 kg/hr (331,500 lb/hr)

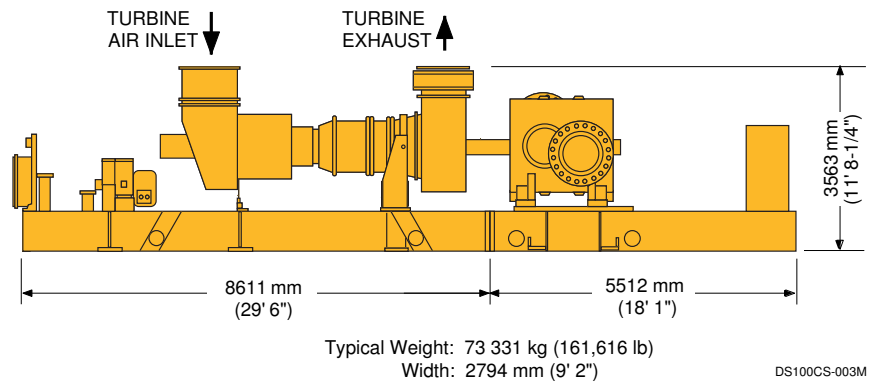
Exhaust Temp
486°C (906°F)

15°C (59°F) Turbine Rating Match.
Other Turbine Rating Match Points
Are Available.

Available Power



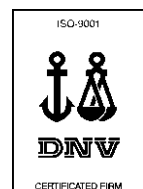
Package Dimensions



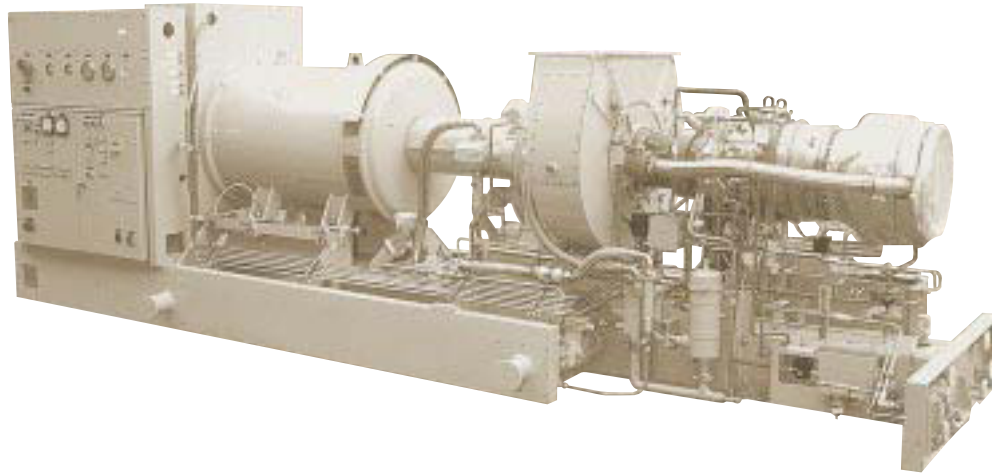
Solar Turbines Incorporated
P.O. Box 85376
San Diego, CA 92186-5376 U.S.A.

FOR MORE INFORMATION
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Internet: www.solarturbines.com

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DS100CS/699/2M



Industrial/Utility Grade



Features

- Industrial Gas Turbine Package
- Compact, Integrated Package Providing Ease of Installation
- Factory Tested
- Multiple Fuel Capability
- Onskid Microprocessor-Control with Auto Sync Capability

Package Arrangement

Gas Turbine

- Saturn® 20 Industrial, Single-Shaft
- Axial Compressor – 8 Stages
- Annular Combustion Chamber
 - 12 Fuel Injectors
- Coatings
 - Compressor: Inorganic Aluminum
 - Turbine and Nozzle Blades: Precious Metal Diffusion Aluminide
- Velocity 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 H Insulation with H Rise
- Continuous Duty Rating

Package

- Steel Base Frame with Drip Pans
- Direct-Drive AC or Pneumatic 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
 - Air/Oil Cooler
 - Integral Lube Oil Tank
 - Lube Oil Filter
- Documentation
 - Drawings
 - Quality Control Data Book
 - Inspection and Test Plan
 - Test Reports
 - O&M Manuals
- Factory Testing of Turbine and Package
- Weatherproof Acoustic Enclosure

Optional Equipment/Services

- Generator Options:
 - Standby Duty Rating
 - Standard Voltages: 380, 415, 3300 50 Hz; 240, 480 2400, 4160 60 Hz

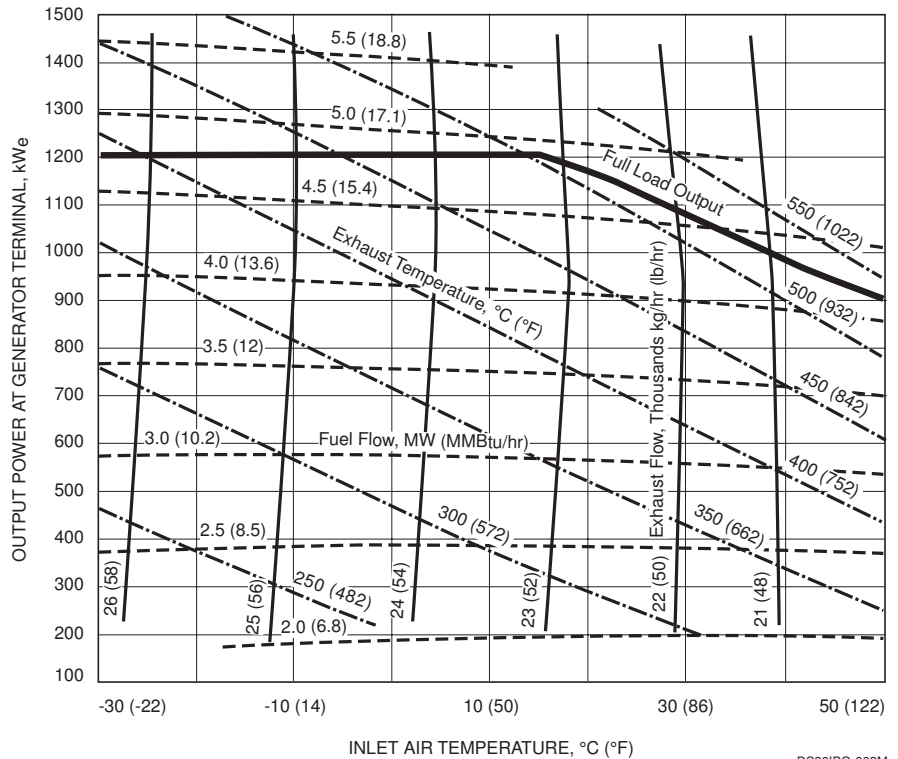
- Fuel Systems
 - Liquid
 - Dual (Gas/Liquid)
 - Water Injection for NOx Control
 - Alternate Fuels (such as naphtha, propane, low Btu)
- Lube Oil System
 - Water/Oil Lube Cooler
 - Electrostatic Demister
 - Lube Oil Tank Heater
- Control System
 - Remote Display/Control Terminal
 - Heat Recovery Application Interface
 - Serial Link Supervisory Interface
 - KW Control
 - KVAR/Power Factor Control
- Accessory Equipment
 - Turbine Cleaning System: On-Crank and On-line
 - Package Lifting Kit
- 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	1210
Heat Rate, kJ/kWe-hr (Btu/kWe-hr)	14 741 (13,972)
Exhaust Flow, kg/hr (lb/hr)	23 220 (51,240)
Exhaust Temperature, °C (°F)	516 (960)

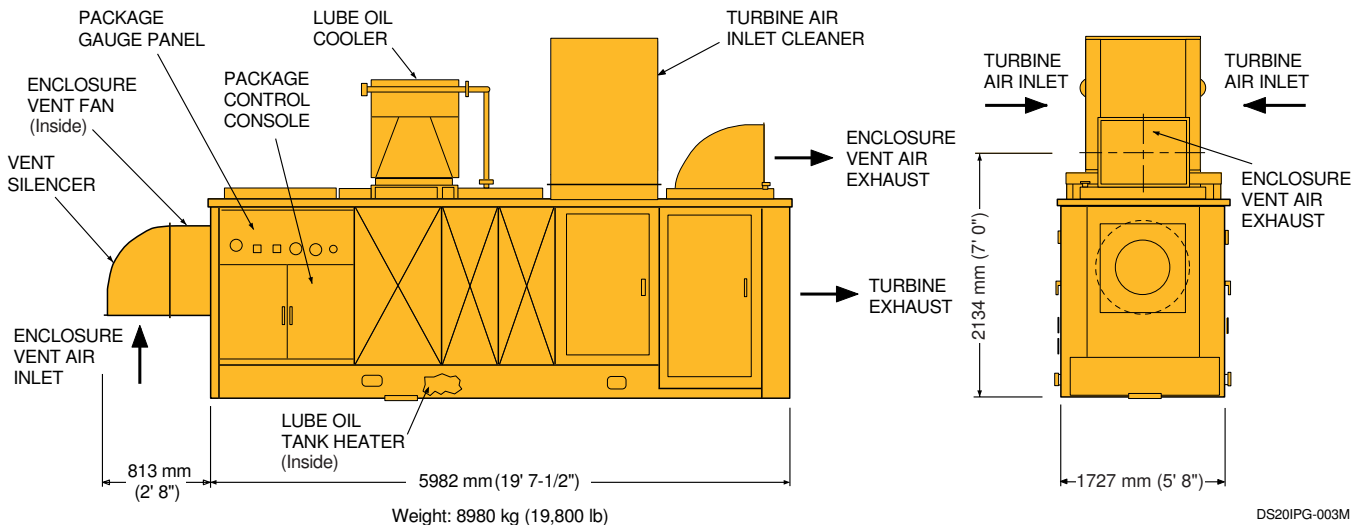
* No inlet or exhaust losses
Relative humidity 60%
Natural gas fuel with
LHV = 31.5 to 43.3 MJ/nm³
(800 to 1100 Btu/scf)

Available Performance



DS20IPG-002M

Typical Package Configuration



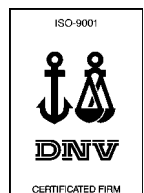
DS20IPG-003M

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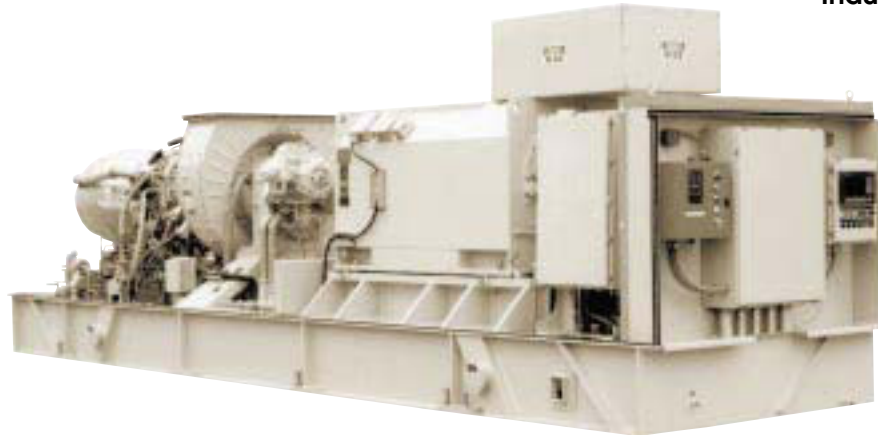
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Industrial/Utility Grade



Features

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

Package Arrangement

Gas Turbine

- *Taurus*[™] 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
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- Integrated Lube Oil System
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 - AC Pre/Post Lube Pump
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 - 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:
 - WPII, 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)

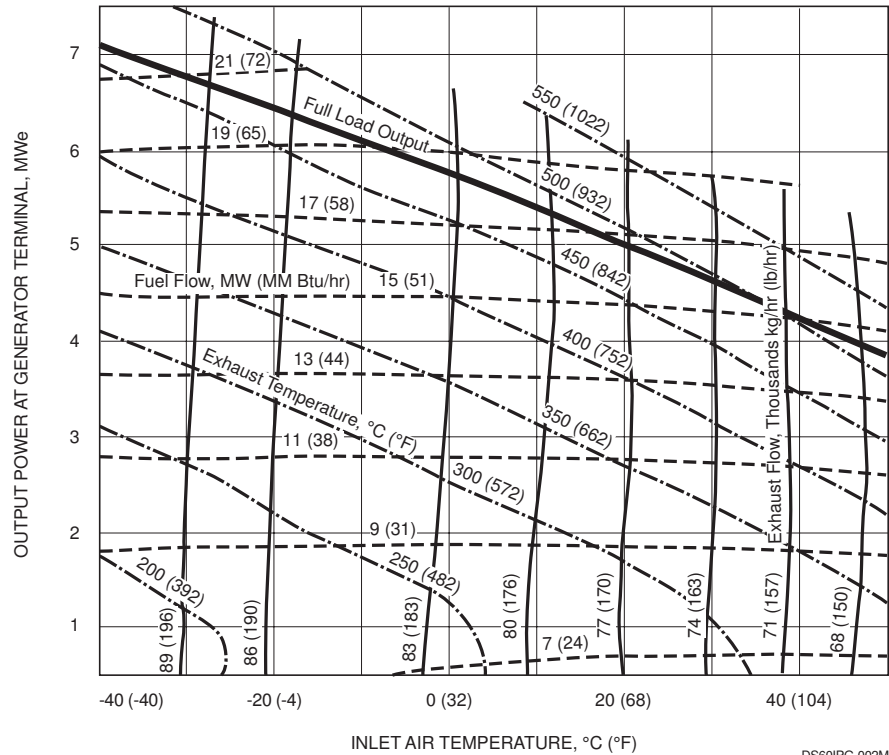
- *SoLoNOx*, Dry, Low Emission
- Alternate Fuels (such as naphtha, propane, low Btu)
- Lube Oil System
 - Water/Oil Lube Cooler
 - Electrostatic Demister
 - Duplex Lube Oil Filters
- Control System
 - Remote Display/Control Terminal
 - Heat Recovery Application Interface
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 - KVAR/Power Factor Control
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 - Predictive Emissions Monitoring
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- Accessory Equipment
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 - 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)

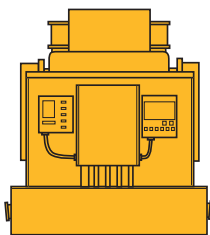
* No inlet or exhaust losses
Relative humidity 60%
Natural gas fuel with
LHV = 31.5 to 43.3 MJ/nm³
(800 to 1100 Btu/scf)

Available Performance

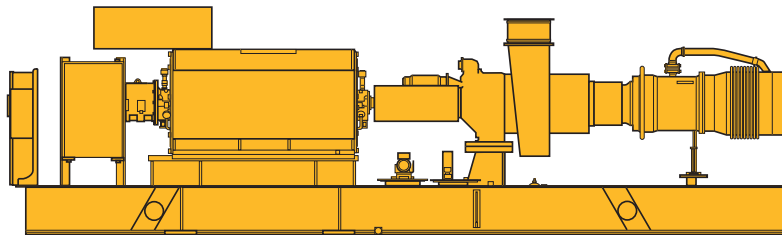


DS60IPG-002M

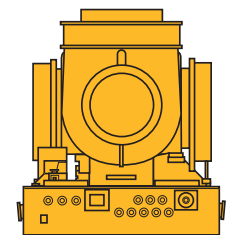
Typical Service Connections



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



Mobile Power - When and Where You Need It

The *Taurus*™ 60 Mobile Power Unit is the prime choice if you're looking to produce reliable, low-cost, onsite peaking power. Designed as an onsite generator system to optimize service for seasonal or cyclical loads, the *Taurus* 60 Mobile Generator System includes these key features:

Easy to Install and Relocate

- Highway Transportable
- Modular Design for Quick Set-Up and Connection
- No Concrete Foundation Required
- Compact Footprint to Minimize Space Requirements
- Ideal for Rental Fleets and Utility Equipment Pools

Environmentally Friendly

- Low Emissions State-of-the-Art *SoLoNOx*™ Dry Low NOx Combustion System
- No Visible Emissions
- Sound Attenuation Package for Quiet Operation
- Low Profile Design to Minimize Installed Height
- Easy to Permit

Flexible Solution

- Leasing and Rental Options Available
- 5-MW Size for Highly Flexible Capacity Addition and Operation
- Fuel Flexibility, Gas or Diesel with Dual Fuel Option

Complete Systems Solution

- Set-Up and Commissioning
- Site Preparation (if needed)
- Ancillary Support Systems (if needed)
- Wide Range of Product Support Programs

Operational Features

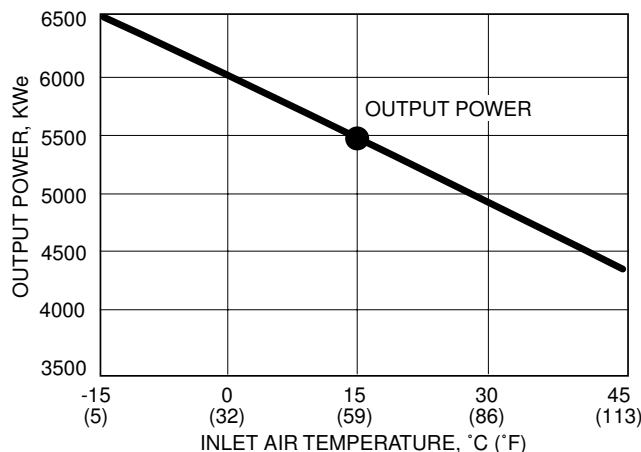
- Dispatchable to be On Line in Six Minutes (from cold start)
- Range of Control System Options for Remote Operation and SCADA Integration
- Utility Grade Switchgear and Protective Relay Module
- KVAR Control for Excellent Reactive Power Capability

Nominal Generator Set Performance

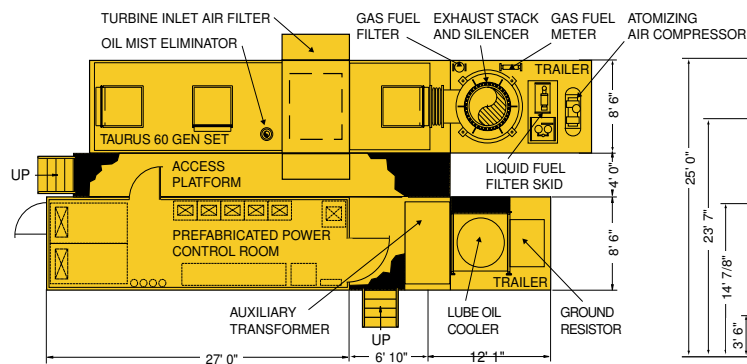
At the core of the Mobile Power Unit is the 5.5 MW *Taurus 60* industrial gas turbine, with a population of more than 1085 units in the field. The Mobile Power Unit combines the features and benefits of the proven *Taurus 60* industrial gas turbine with a mobile system that is easy to relocate and connect.

Output Power, kW
ISO: 15°C (59°F), sea level **5,500**

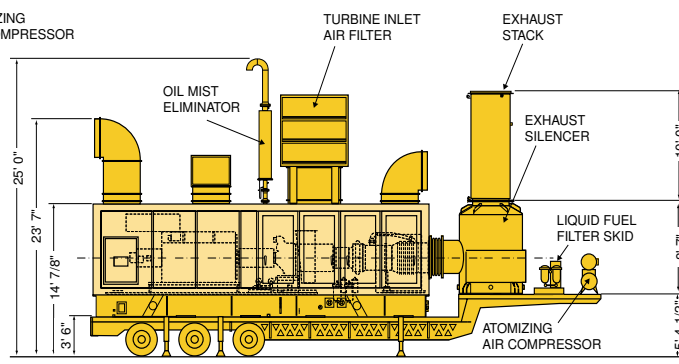
Heat Rate, Btu/kWe-hr **11,263**



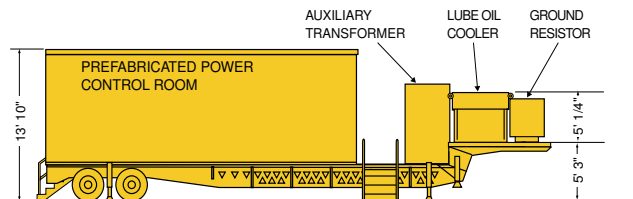
Typical Dimensions



INSTALLATION PLAN VIEW



GENERATOR MODULE



POWER CONTROL MODULE

Mobile Power - When and Where You Need It

For information on price, delivery and how the *Taurus 60* Mobile Power Unit can meet your needs for short-term capacity and reduce your exposure to market spikes, e-mail: powergen@solarturbines.com or call (858) 694-6570.



Sited Configuration of Taurus 60 Mobile Power Unit

Solar Turbines Incorporated
P.O. Box 85376 MZ SP3-Q
San Diego, CA 92186-5376 U.S.A.

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DS60MPU/702/4M

FOR MORE INFORMATION

Telephone: (+1) 619-544-5352
Telefax: (+1) 858-694-6715
E-mail: powergen@solarturbines.com
Internet: www.solarturbines.com



Industrial/Utility Grade



Standard Package Configurations

Gas Turbine

- *Taurus*[™] 70 Industrial, Single-Shaft
- Axial Compressor
 - 14-Stage
 - Variable Inlet Guide Vanes and Stators
 - Compression Ratio 16:1
 - Inlet Airflow: 26.2 kg/sec (57.7 lb/sec)
 - Speed: 15,200 rpm
 - Vertically Split Case
- Annular Combustion Chamber
 - Conventional or Lean-Premixed, Dry, Low Emission (*SoLoNO_x*)
 - 12 Fuel Injectors
 - Torch Ignitor System
- Proximity Probe Vibration Transducers
- Turbine
 - 3-Stage, Axial Flow
 - Speed: 15,200 rpm

Main Reduction Drive

- Epicyclic
 - 1500 or 1800 rpm (50 or 60 Hz)
 - Acceleration Vibration Transducer

Generator

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

Package

- Steel Base Frame with Drip Pans
- Direct-Drive AC Start System
- Natural Gas Fuel System
- *Turbotronic*[™] 4 Control System
 - ControlLogix Processor
 - Standard Display with Discrete Event Log, Strip Chart, Historical Trend, Maintenance Screen
 - Gas Turbine and Generator Control
 - Vibration and Temperature Monitoring
 - Auto Synchronizing
 - KW Control
 - CGCM Module
 - KVAR/Power Factor Control (Optional)
 - Combination Generator Control Module with Load Share, Synchronization, Voltage Control, Reactive Power Control, Generator Protection
- Integrated Lube Oil System
 - Turbine-Driven Lube Pump
 - Pre/Post Lube Pump
 - Backup Lube Pump
 - Air/Oil Cooler
 - Integral Lube Oil Tank
 - Lube Oil Tank Heater
 - Simplex Lube Oil Filter
 - Oil Mist Eliminator
- Documentation
 - Drawings
 - Quality Control Data Book
 - Inspection and Test Plan
 - Test Reports
 - Operation and Maintenance Manuals
- Turbine Cleaning System: On-Crank and On-Line
- Factory Testing of Turbine and Package

Optional Equipment

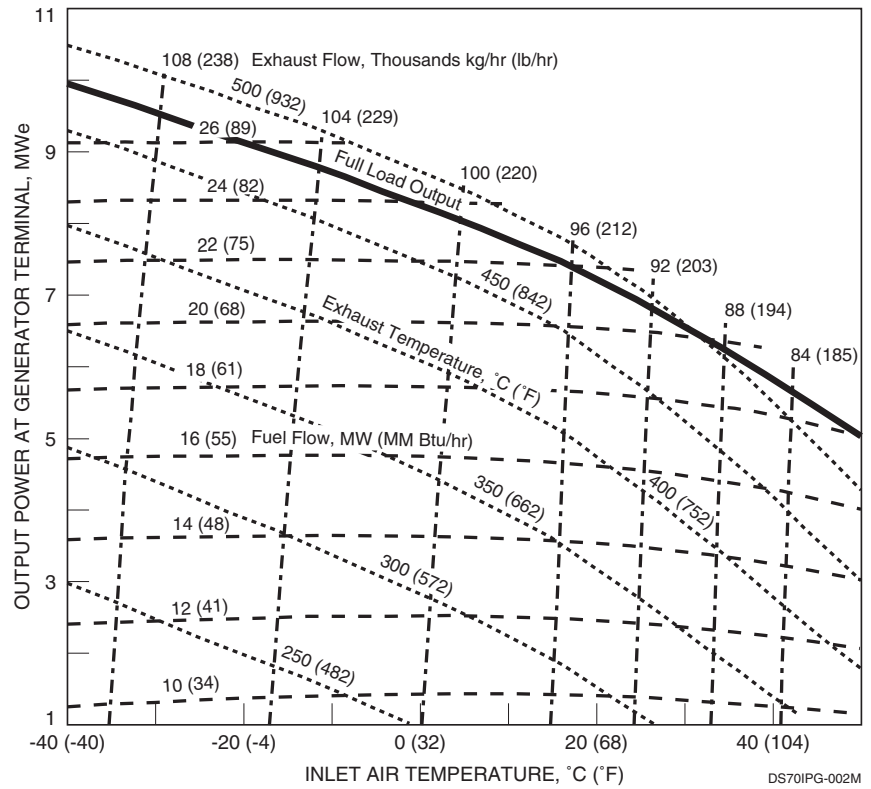
- Generator Options:
 - Totally Enclosed Water/Air Cooled
 - Standard Voltages: 6600, 11,000 V (50 Hz); 4160, 12,470, 13,800 V (60 Hz)
- Fuel Systems
 - Liquid
 - Dual (Gas/Liquid)
 - Alternate Fuels (such as naphtha, propane, low Btu gas)
 - ElectricFuel Control
- Lube Oil System
 - Water/Oil Lube Oil Cooler
 - Duplex Lube Oil Filters
 - Vent Flame Trap
- Control System
 - Auxillary and Remote Display/Control Terminal
 - Heat Recovery Application Interface
 - Serial Link Supervisory Interface
 - Turbine Performance Map
 - Historical Displays
 - Printer/Logger
 - Field Programming Terminal
- Accessory Equipment
 - 120-VDC Battery/Charger System
 - Package Lifting Kit
- Weatherproof Acoustic Enclosure
- Ancillary Equipment:
 - Inlet and Exhaust Silencers
 - Self-Cleaning or Prefilter/Barrier Air Inlet Filter
 - Inlet Evaporative Cooler
 - Inlet Chiller Coils
 - Ancillary Support Frame

Nominal Performance*

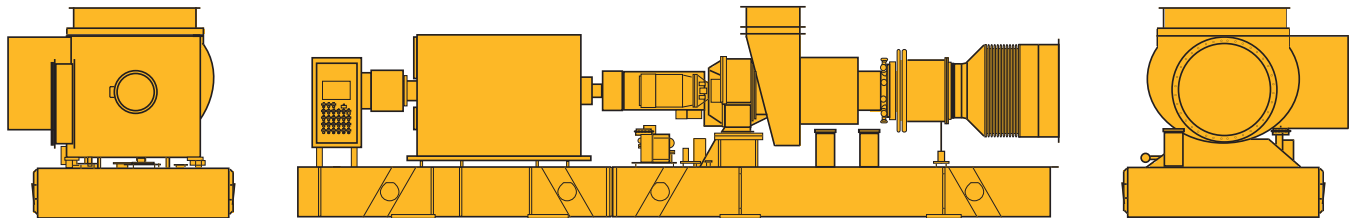
Output Power, kW ISO: 15°C (59°F), sea level	7520
Heat Rate, kJ/kWe-hr (Btu/kWe-hr)	10 650 (10,100)
Exhaust Flow, kg/hr (lb/hr)	97 000 (213,840)
Exhaust Temperature, °C (°F)	490 (910)

* No inlet or exhaust losses
Relative humidity 60%
Natural gas fuel with
LHV = 31.5 to 43.3 MJ/nm³
(800 to 1100 Btu/scf)

Available Performance



Typical Service Connections



Forward End

Left Side

Aft End

DS70IPG-003M

Right Side

- Lube Oil Tank Vent

Package Dimensions

Length:	11 278 mm (37' 0")
Width:	2932 mm (9' 7-7/16")
Height:	2743 mm (9' 0")
Approximate Weight (dry):	50 314 kg (110,923 lb)

Left Side

- Lube Oil: Cooler, Drain, Vent
- AC Power
 - Starter Motor
 - Liquid Fuel Pump
 - Pre/Post Lube Pump
 - Oil Tank Heater
- Package Ground
- DC Power, Backup Lube Pump
- Lube Oil Tank Drain

Forward End

- Turbine Control Box
- Generator Drip Pan Drain
- Package Ground
- Generator Control Box
- Generator Terminal Box

Aft End

- Combustor and Exhaust Diffuser Drains
- Fuel: Inlet, Filter, Drain, Vent
- Auxiliary Air (optional) for:
 - Liquid Fuel Atomizing
 - Self-Cleaning Filter
- Turbine Cleaning
- Turbine Drip Pan Drain

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DS70PG/103/1M

