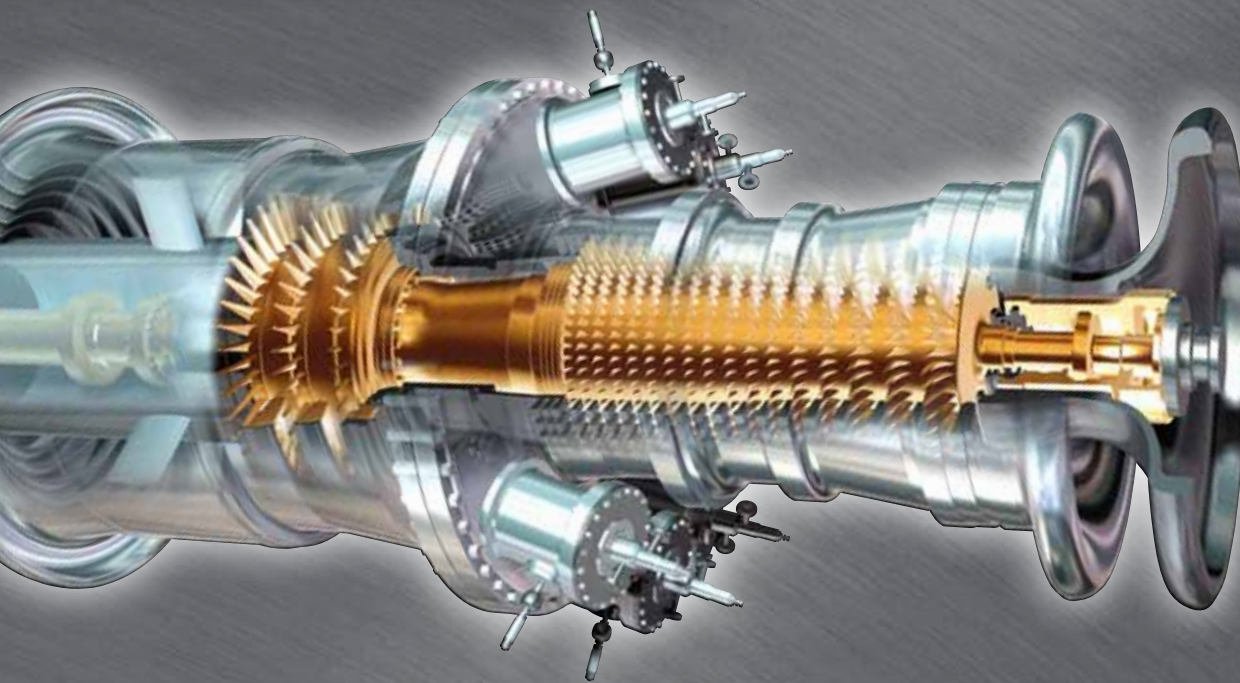


A 
STRUCTURED
PRODUCT

Frame 6 Gas Turbine

The MS6001B is a proven 40-MW class gas turbine that can be quickly installed for power generation or mechanical drive service. It is recognized as rugged and reliable, handling the multiple startups required for peak load service, accommodating a variety of fuels and well-suited to Integrated Gasification Combined Cycle (IGCC) applications. The 6B is one of the most versatile and widely used gas turbines ever manufactured – with more than 900 units in service, and over 40 million operating hours accumulated.



Simple Cycle Performance

	50/60 Hz Power generation	Mechanical drive
Output	42.1 MW	58,380 hp
Heat rate	10,642 Btu/kWh (11,227 kJ/kWh)	7,650 Btu/shp-hr
Pressure ratio	12.2:1	12.0:1
Mass flow	311 lb/sec (141.1 kg/sec)	309 lb/sec (140kg/sec)
Turbine speed	5,163 rpm	5,111 rpm
Exhaust temperature	1,018°F (548°C)	1,012°F (544°C)
Model designation	PG6581B	M6581B

Combined Cycle Performance

	50/60 Hz (S106B)	50/60 Hz (S206B)	50/60 Hz (S406B)
Net plant output	64.3 MW	130.7 MW	261.3 MW
Heat rate	6,960 Btu/kWh (7,340 kJ/kWh)	6,850 Btu/kWh (7,225 kJ/kWh)	6,850 Btu/kWh (7,225 kJ/kWh)
Net plant efficiency	49.00%	49.80%	49.80%
GT number & type	1 x MS6001B	2 x MS6001B	4 x MS6001B

The perfect mix of
Standardization & **customization**



Frame 6 Gas Turbine

Exhaust duct

CONFIGURATION NOTES

Exhaust duct material:
carbon steel casing with AISI409 lining
and panels

TECHNICAL OPTIONS

Exhaust duct type:
Lateral right
Lateral left
Vertical

Stack:
Yes
No

Duct height:
15 m
16 m
30 m
45 m

Filter house

CONFIGURATION NOTES

Inlet duct UP and FRONT
Ventilation system pressurized
Ventilation take-off segregated
Ventilation supplied also to gearbox/coupling
compartment
ON BASE enclosure

Altitude and max ambient temperature:
Desert and seaside environment:
300 m @ 50°C
1,000 m @ 47°C
1,500 m @ 45°C

Continental environment:
1,500 m @ 35°C

Site temperature (min/max):
Desert and seaside environment: -12°C/+55°C
For continental environment: -20°C/+35°C

TECHNICAL OPTIONS

Filter house type:
Pulse jet
Static multiphase

Environment:
Continental, cold winters/
unusual snow storms
Desert/coastal/heavy fogs
Desert/dry
Seaside not foggy/tropical, very
humid, not dusty

Inlet bleed heating:
Yes
No

Material:
Stainless steel (for ambient
temperature > -20°C)
Carbon steel (for ambient
temperature > -20°C)

Pulse jet air source:
Customer
Turbine axial compressor

Painting/surface treatment:
SS painted
SS not painted

Bolts and nuts:
ANSI B1.1
ISO Std

Combustion system:
SAC
DLN

Pre-assembly:
Yes
No

JB/Cable glands material:
Aluminum/Nickel Plated Brass
AISI316L/AISI316

*Only for desert/dry
environment

TECHNICAL OPTIONS (3 STAGES)

Material:
Carbon steel with lining and
panels in AISI304L AISI316L

Inlet bleed heating:
Yes
No

CONFIGURATION NOTES

Inlet duct UP and FRONT
Ventilation system pressurized
Ventilation take-off segregated
Ventilation supplied also to gearbox/coupling
compartment
ON BASE enclosure

TECHNICAL OPTIONS

Air by customer: Yes
(for pulse jet) No*

Inlet bleed heating:
Yes
No

Insulation:
Internal
External

Casing material:
Stainless steel
Carbon steel

Painting/surface treatment:
SS painted
SS not painted

Welding:
ASME IX+DEP
ASME IX

Hardware treated type:
ISO standard
ANSI B1.1 standard

* With cooler

Rugged & Reliable

Availability well documented at 96.2% and reliability at 99.2%, it is the popular choice for efficient, low installed cost power generation or prime movers in mid-range service.

In combined cycle operation, the 6B is a solid performer at nearly 50% efficiency.

It is a flexible choice for cogeneration applications capable of producing a thermal output ranging from 20 to 400 million Btu/hr.

With a Dry Low NOx combustion system, the 6B can achieve less than 15 ppm NOx on natural gas.

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