

SPECIFICATIONS



48 MW 2012 Used GE LM6000 PD Natural Gas Turbine Combined Cycle Power Plant

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Description

This combined cycle power plant represents a high-efficiency, fast-starting solution for distributed generation, peaking power, and industrial cogeneration applications. Built around an aeroderivative gas turbine derived from proven aviation technology, coupled with a heat recovery steam generator (HRSG) and steam turbine bottoming cycle, this turnkey power plant delivers exceptional fuel efficiency and operational flexibility. With a 2012 manufacture date and comprehensive service documentation, this pre-owned facility offers immediate deployment capability at a fraction of new-build capital costs—ideal for independent power producers, utilities, and industrial facilities seeking reliable intermediate-duty or baseload generation.

The combined cycle configuration delivers approximately 48 MW total electrical output: ~43 MW from the gas turbine and ~5 MW from the steam turbine. Net plant efficiency reaches 48-50% (LHV basis)—significantly superior to simple cycle operation. The gas turbine operates at 3,600 RPM (60 Hz) or 3,000 RPM (50 Hz) with dual-fuel capability (natural gas and distillate). The HRSG generates steam at pressures up to 600 psi, feeding a single-stage steam turbine with condensing or back-pressure configurations available for process steam export.

KEY FEATURES:

- Dry low emissions (DLE) combustor achieving <15 ppm Nox
- Aeroderivative gas turbine with two-shaft design and free power turbine
- Fast start capability: synchronized to grid in under 10 minutes

ADVANTAGES

- Lowest operating costs per MWh among mid-scale gas-fired technologies
- Reduced emissions: 50% lower CO₂ per MWh versus simple cycle operation
- Industry-leading thermal efficiency: 48-50% fuel-to-electricity conversion

Ideal Applications: Utility peaking plants, industrial cogeneration, district heating/cooling, refineries, chemical plants, independent power projects (IPPs), and island grid baseload generation.

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Manufacturer	GE
Model	LM6000 PD
Year	2012
Condition	Used
Location	Asia
Qty Available	1 Unit
Category	Natural Gas Turbines
Subcategory	10 – 99 MW
Stock Number	USP010875
Wattage	48 MW
Hours	98000 Hours
Frequency	50 Hz
Fuel Type	Natural Gas
Voltage	11000 Volts
Balance of Plant Available? (BOP)	-

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