



LM6000 POWER PLANTS

45-57 MW
NET OUTPUT

UP TO 41.4%
NET EFFICIENCY

5 MINUTE
START TIME



CAPABILITY

Achieves various dispatch profiles with 3-minute synchronization to the grid



VERSATILITY

Operates from peaking to baseload with applications in combined cycle, simple cycle, industrial cogeneration, and district heating



SUSTAINABILITY

Reduces greenhouse gas emissions as part of the LM6000 battery Hybrid EGT offering

With over 40 million operating hours and more than 1,300 units shipped, GE's LM6000 aeroderivative gas turbine is a leader in the +40 MW space. The LM6000 offers greater than 99 percent start and operational reliability and 98 percent availability. Its 5-minute fast start allows operators to differentiate their dispatch capability while a simple two-spool design results in lower overall maintenance costs. Universal and modular packaging gives the LM6000 a smaller footprint and allows for faster installation and commissioning.

Simple cycle specifications (50 Hz and 60 Hz)

	LM6000 PC	LM6000 PG	LM6000 PF	LM6000 PF+
Net output (MW)	46.6/51.1*	56.0/57.2*	44.7/50.0*	53.9/57.1*
Net heat rate (Btu/kWh, LHV)	8,533	8,728	8,357	8,357
Net heat rate (kJ/kWh, LHV)	9,002	9,208	8,817	8,817
Net efficiency (% LHV)	40.0%	39.1%	41.4%	40.8%
Ramp rate (MW/minute)	30	30	30	30
Startup time (cold iron) (min.)	5	5	5	5
GT min. turn down load (%)	11%	11%	50%	50%

Combined cycle 1x1 specifications

Net output (MW)	60.3/66.5*	73.9/75.5*	58.8/65.2*	72.4/76.0*
Net heat rate (Btu/kWh, LHV)	6,571	6,603	6,242	6,170
Net heat rate (kJ/kWh, LHV)	6,932	6,966	6,585	6,510
Net efficiency (% LHV)	51.9%	51.7%	54.7%	55.3%
Ramp rate (MW/minute)	50	50	50	50
Startup time (cold iron) (min.)	30	30	30	30
GT min. turn down load (%)	19%	19%	37%	37%

Combined cycle 2x1 specifications

Net output (MW)	121.1/133.6*	148.8/152.2*	118.4/131.2*	142/155*
Net heat rate (Btu/kWh, LHV)	6,541	6,563	6,197	6,134
Net heat rate (kJ/kWh, LHV)	6,902	6,924	6,538	6,472
Net efficiency (% LHV)	52.2%	52.0%	55.1%	55.6%
Ramp rate (MW/minute)	100	100	100	100
Startup time (cold iron) (min.)	30	30	30	30
GT min. turn down load (%)	19%	19%	19%	18%

LM6000 additional specifications

Reliability	99.8%	99.8%	99.8%	99.8%
Availability	98.7%	98.7%	98.7%	98.7%
Start reliability	99.1%	99.1%	99.1%	99.1%
Fleet operation hours	18.7M	108,000	2.1M	30,000
Hot section hours	25,000	25,000	25,000	25,000
Overhaul hours	50,000	50,000	50,000	50,000
NOx emission (ppm) (@ 15% O ₂)	25	25	15	15/25
CO (ppm) (@ 15% O ₂)	89/150**	59/150**	25/70**	25/25**
Package noise (dBA average)	85	85	85	85
Exhaust temp (°F/°C)	831/444	893/478	864/462	930/499
Exhaust mass flow (lbs)	290.3	317.4	280.7	310.6
Exhaust mass flow (Kg/s)	131.7	144.0	127.3	147.2
Combustion	SAC	SAC	DLE	DLE
Legacy name	LM6000 (52)	LM6000 (59)	LM6000 DLE (50)	LM6000 DLE (57)

* MW output without SPRINT/with SPRINT

**At baseload/minimum turndown without abatement

NOTE: All ratings are net plant, based on ISO conditions and natural gas fuel. Actual performance will vary with project-specific conditions and fuel.