



LMS100 POWER PLANTS

117 MW
SIMPLE CYCLE OUTPUT

>44%
SIMPLE CYCLE EFFICIENCY



CAPABILITY

Desalination capability from waste heat off intercooler can generate up to 3,000+ gallons per minute



VERSATILITY

Available dual fuel capability with fuel switching at full power



SUSTAINABILITY

Zero water option and lowest CO₂ emitting simple cycle gas turbine

If it's efficiency you're looking for, search no more. Our LMS100 aeroderivative gas turbine is the highest simple cycle efficiency gas turbine in the world. Its intercooled gas turbine system provides rapid startup, with an 8-minute start to full load and emergency ramp speeds of up to 500 MW/minute. In high renewable penetration areas like California, our LMS100 gas turbines are providing 2.8 GW of generation with more than 1,400 MW/minute of ramping capability.

Simple cycle specifications

	50 Hz	60 Hz
Net output (MW)	117	117
Net heat rate (Btu/kWh, LHV)	7,925	7,718
Net heat rate (kJ/kWh, LHV)	8,362	8,143
Net efficiency (% LHV)	43.5%	44.3%
Ramp rate (MW/minute)	50	50
Startup time (cold iron) (min.)	8	8
Exhaust temp (°F/°C)	824/440	810/432
Exhaust mass flow (lbs)	516.9	516.9
Exhaust mass flow (Kg/s)	234.5	234.5

Combined cycle 1x1 specifications

Net output (MW)	142	140
Net heat rate (Btu/kWh, LHV)	6,540	6,438
Net heat rate (kJ/kWh, LHV)	6,900	6,793
Net efficiency (% LHV)	51.6%	52.1%
Ramp rate (MW/minute)	50	50
Startup time (cold iron) (min.)	30	30
Exhaust temp (°F/°C)	824/440	810/432
Exhaust mass flow (lbs)	516.9	516.9
Exhaust mass flow (Kg/s)	234.5	234.5

Combined cycle 2x1 specifications

Net output (MW)	284	281
Net heat rate (Btu/kWh, LHV)	6,511	6,411
Net heat rate (kJ/kWh, LHV)	6,870	6,764
Net efficiency (% LHV)	51.6%	52.1%
Ramp rate (MW/minute)	100	100
Startup time (cold iron) (min.)	30	30
Exhaust temp (°F/°C)	824/440	810/432
Exhaust mass flow (lbs)	516.9	516.9
Exhaust mass flow (Kg/s)	234.5	234.5

LMS100 additional specifications

Reliability	99.6%	99.6%
Availability	96.7%	96.7%
Start reliability	99.7%	99.7%
Fleet operation hours	742,897	742,897
Hot section hours	25,000	25,000
Overhaul hours	50,000	50,000
NOx emission (ppm) (@ 15% O ₂)	25	25
CO (ppm) (@ 15% O ₂)	95/250*	95/250*
Package noise (dBA average)	85	85
Combustion	SAC	SAC
Legacy name	PA+	PA+

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