



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

| | 50 Hz | 60 Hz |
|---------------------------------|---------|---------|
| 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

| | 50 Hz | 60 Hz |
|---------------------------------|---------|---------|
| 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

| | 50 Hz | 60 Hz |
|--|---------|---------|
| 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.