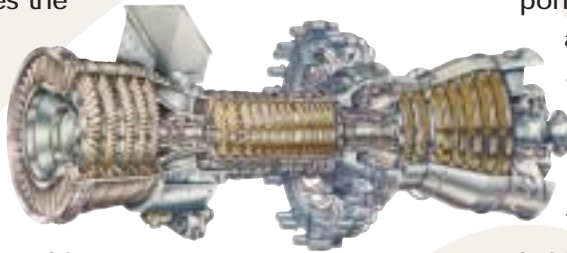




## LM6000 SPRINT™ Gas Turbine Generator Set

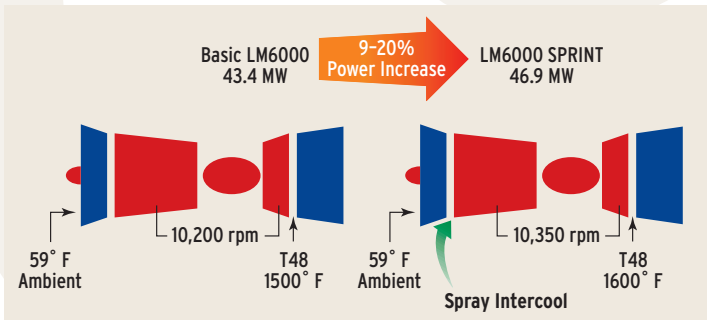
### The Inter-cooled Engine that Increases Power Output

The LM6000 SPRINT™ combines the best simple-cycle heat rate of any industrial gas turbine in its class today with a spray inter-cooling design that significantly increases the mass airflow by cooling the air during the compression process. The result is more power, a better heat rate and a gas turbine without any increase in maintenance costs.



### The Hotter It Gets, The More Effectively It Runs

SPRINT's™ effectiveness is even more pronounced in hot weather—power output is increased by 9% at ISO and is increased by more than 20% on 90° days. It is like having an evaporative cooler built within the gas turbine. As ambient temperature rises, the benefits of a SPRINT™ engine become more significant.



### The SPRINT™ Solution

The SPRINT™ system is based on an atomized water spray injected through spray nozzles into the compressor. Water is atomized using high-pressure air taken off of eighth stage air bleed. The water-flow rate is metered, using the appropriate engine control schedules.

### The SPRINT™ Solution at Work

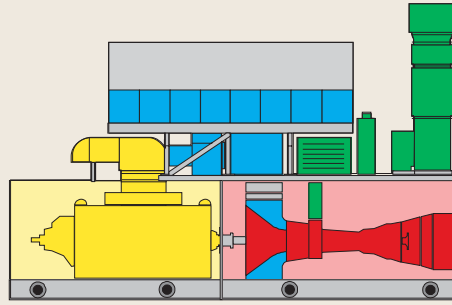
On high-pressure ratio gas turbines such as the LM6000, the compressor discharge temperature is often the criteria that limits power output because compressed air is used to cool the hot section components. By pre-cooling the LM6000 compressor with a micro-mist of water, the compressor inlet temperature and outlet temperature are significantly reduced. Thus, the compressor outlet temperature limitation is reduced allowing the LM6000 to operate on its natural firing temperature control.

The result is higher output and better efficiency.



## SPRINT 60-Hz Generator Sets

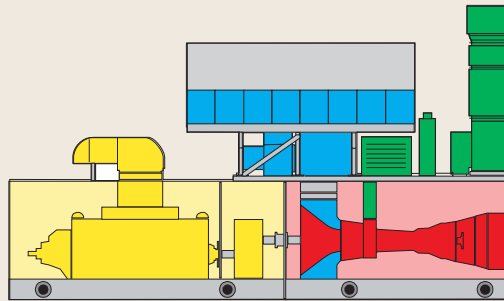
Base Plate Length	56' 6"	(17.22 m)
Base Plate Width	13' 6"	(4.11 m)
Enclosure Height	14' 6"	(4.42 m)
Overall Length	56' 9"	(17.30 m)
Overall Width*	49' 9"	(15.16 m)
Overall Height*	36' 2"	(11.02 m)
Base Plate Foundation Load*	476,000 lb	(214,200 kg)



	Power kW	Heat Rate		No. Shafts	Pressure Ratio	Shaft Speed rpm	Exhaust Flow		Exhaust Temp.	
		Btu/kWh LHV	kJ/kWh LHV				lb/s	kg/s	°F	°C
LM6000PC SPRINT*	50080	8434	8916	2	30.9	3600	295	134	826	441
LM6000PC	43417	8112	8549	2	29.1	3600	281	127	831	444
LM6000PD SPRINT	46824	8235	8688	2	30.7	3600	290	131	837	447
LM6000PD	42336	8308	8765	2	29.3	3600	278	126	846	452
LM6000PD (liquid fuel)	40212	8415	8878	2	28.1	3600	268	122	857	458
LM2500PK	30676	8834	9300	2	23.6	3600	192	87.1	958	514
LM2500PV	30463	8854	9069	2	22.6	6100	186	84.3	931	499
LM2500PH**	27763	8391	8775	2	20.2	3600	167	75.9	926	497
LM2500PE	22719	9311	9789	2	19.1	3600	153	69.4	992	533

## SPRINT 50-Hz Generator Sets

Base Plate Length	64' 7"	(19.69 m)
Base Plate Width	13' 6"	(4.11 m)
Enclosure Height	14' 6"	(4.42 m)
Overall Length	64' 10"	(19.76 m)
Overall Width*	49' 3"	(15.01 m)
Overall Height*	37' 11"	(11.56 m)
Base Plate Foundation Load*	522,000 lb	(234,900 kg)



	Power kW	Heat Rate		No. Shafts	Pressure Ratio	Shaft Speed rpm	Exhaust Flow		Exhaust Temp.	
		Btu/kWh LHV	kJ/kWh LHV				lb/s	kg/s	°F	°C
LM6000PC SPRINT*	50041	8461	8961	2	31.0	3627	297	135	821	438
LM6000PC	42890	8173	8617	2	29.1	3627	282	128	825	441
LM6000PD SPRINT	46902	8272	8739	2	30.9	3627	292	133	834	446
LM6000PD	41711	8374	8846	2	29.3	3627	279	127	838	448
LM6000PD (liquid fuel)	40376	8452	8917	2	28.5	3627	272	123	853	456
LM2500PK	29244	9177	9675	2	22.8	3000	193	87.7	967	519
LM2500PV	30349	8577	9069	2	21.5	6100	186	84.3	931	499
LM2500PH**	26463	8673	9080	2	19.4	3000	168	76.2	932	500
LM2500PE	21719	9653	10141	2	18	3000	154	69.8	1000	538

## Mechanical-Drive Sets

	Heat Rate Btu/kWh LHV	No. Shafts	Pressure Ratio	Shaft Speed rpm	Exhaust Flow		Exhaust Temp.	
					lb/s	kg/s	°F	°C
LM6000PC	5941	2	29.1	3600	281.9	127.8	825	440
LM2500PK	6442	2	22.5	3600	192.0	87.1	958	514
LM2500PV	6187	2	21.5	6100	186.0	84.3	931	499
LM2500PE	6773	2	22.8	3600	153.0	69.4	992	533

Note: Performance based on 59° F amb. Temp. 60% RH, sea level, no inlet/exhaust losses on gas fuel without NOx media, unless otherwise specified.

\*SPRINT 2002 deck is used with water injection to 25ppmvd for power enhancement

\*\* Rating includes use of 50,000 lb/hr steam injection.

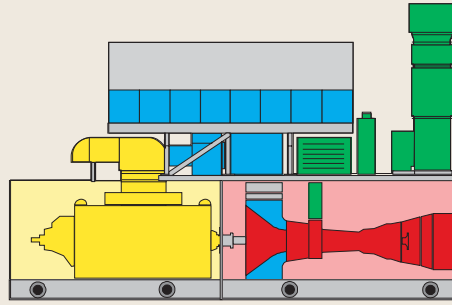


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## SPRINT™ 60-Hz Generator Sets

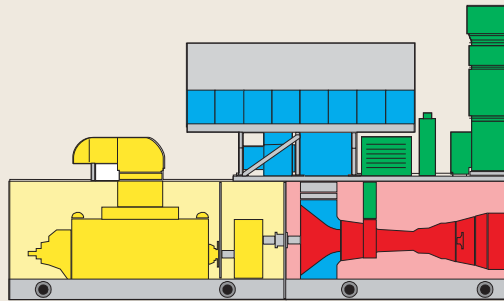
Base Plate Length	56' 6"	(17.22 m)
Base Plate Width	13' 6"	(4.11 m)
Enclosure Height	14' 6"	(4.42 m)
Overall Length	56' 9"	(17.30 m)
Overall Width*	49' 9"	(15.16 m)
Overall Height*	36' 2"	(11.02 m)
Base Plate Foundation Load*	476,000 lb	(214,200 kg)



	Power kW	Heat Rate		No. Shafts	Pressure Ratio	Shaft Speed rpm	Exhaust Flow		Exhaust Temp.	
		Btu/kWh LHV	kJ/kWh LHV				lb/s	kg/s	°F	°C
<b>LM6000PC SPRINT™ *</b>	50080	8434	8916	2	30.9	3600	295	134	826	441
<b>LM6000PC</b>	43417	8112	8549	2	29.1	3600	281	127	831	444
<b>LM6000PD SPRINT™</b>	46824	8235	8688	2	30.7	3600	290	131	837	447
<b>LM6000PD</b>	42336	8308	8765	2	29.3	3600	278	126	846	452
<b>LM6000PD (liquid fuel)</b>	40212	8415	8878	2	28.1	3600	268	122	857	458
<b>LM2500PK</b>	30676	8834	9300	2	23.6	3600	192	87.1	958	514
<b>LM2500PV</b>	30463	8854	9069	2	22.6	6100	186	84.3	931	499
<b>LM2500PH**</b>	27763	8391	8775	2	20.2	3600	167	75.9	926	497
<b>LM2500PE</b>	22719	9311	9789	2	19.1	3600	153	69.4	992	533

## SPRINT™ 50-Hz Generator Sets

Base Plate Length	64' 7"	(19.69 m)
Base Plate Width	13' 6"	(4.11 m)
Enclosure Height	14' 6"	(4.42 m)
Overall Length	64' 10"	(19.76 m)
Overall Width*	49' 3"	(15.01 m)
Overall Height*	37' 11"	(11.56 m)
Base Plate Foundation Load*	522,000 lb	(234,900 kg)



	Power kW	Heat Rate		No. Shafts	Pressure Ratio	Shaft Speed rpm	Exhaust Flow		Exhaust Temp.	
		Btu/kWh LHV	kJ/kWh LHV				lb/s	kg/s	°F	°C
<b>LM6000PC SPRINT™ *</b>	50041	8461	8961	2	31.0	3627	297	135	821	438
<b>LM6000PC</b>	42890	8173	8617	2	29.1	3627	282	128	825	441
<b>LM6000PD SPRINT™</b>	46902	8272	8739	2	30.9	3627	292	133	834	446
<b>LM6000PD</b>	41711	8374	8846	2	29.3	3627	279	127	838	448
<b>LM6000PD (liquid fuel)</b>	40376	8452	8917	2	28.5	3627	272	123	853	456
<b>LM2500PK</b>	29244	9177	9675	2	22.8	3000	193	87.7	967	519
<b>LM2500PV</b>	30349	8577	9069	2	21.5	6100	186	84.3	931	499
<b>LM2500PH**</b>	26463	8673	9080	2	19.4	3000	168	76.2	932	500
<b>LM2500PE</b>	21719	9653	10141	2	18	3000	154	69.8	1000	538

## Mechanical-Drive Sets

	Heat Rate Btu/kWh LHV	No. Shafts	Pressure Ratio	Shaft Speed rpm	Exhaust Flow		Exhaust Temp.	
					lb/s	kg/s	°F	°C
<b>LM6000PC</b>	5941	2	29.1	3600	281.9	127.8	825	440
<b>LM2500PK</b>	6442	2	22.5	3600	192.0	87.1	958	514
<b>LM2500PV</b>	6187	2	21.5	6100	186.0	84.3	931	499
<b>LM2500PE</b>	6773	2	22.8	3600	153.0	69.4	992	533

Note: Performance based on 59° F amb. Temp. 60% RH, sea level, no inlet/exhaust losses on gas fuel without NOx media, unless otherwise specified.

\*SPRINT™ 2002 deck is used with water injection to 25ppmvd for power enhancement

\*\* Rating includes use of 50,000 lb/hr steam injection.



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