

# ENGINES FOR POWER GENERATION

- Dependable and durable in power generation
- Engines for continuous, prime, stand-by and emergency operation
- Available in high and medium speed
- Wide range of outputs
- Available as gas and diesel solution
- Suitable for cogeneration of energy



## Advanced technology

Your partner in reliable, durable engines for all power generation applications.

### Global Reach

As a globally operating company with subsidiaries in all parts of the world, our goal is to help you wherever you need it. Our engines are made to perform under the toughest conditions and are known for their durability and reliability.

### Reliable engines

The Mitsubishi diesel and gas engine line up for power generation comprises of engines from 6.5 kWm up to 15,000 kWm\*. These engines can be found in a multitude of applications including generator sets for stand-by or emergency power, prime power for peak shaving or base load power plants.

### Partner

With a relentless focus on engineering and product design we continuously improve our products. Always ensuring the Japanese quality standards, the engines are built to last and with ease of installation and maintenance in mind.

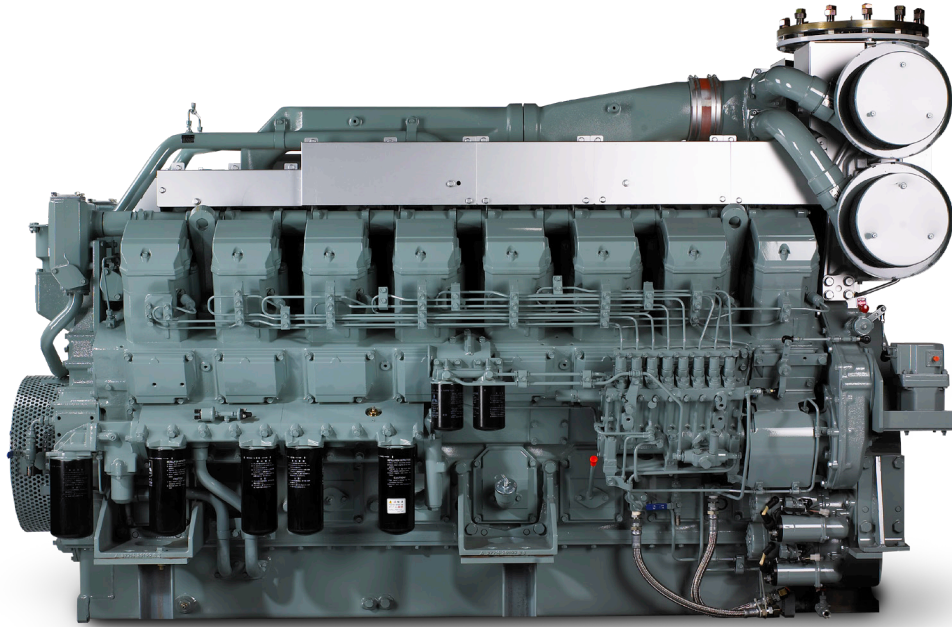
We understand that building the right solutions begins with building strong, respectful relationships. By listening to our customers and fully understanding their needs, we work as a team to create products that keep everyone's best interest in mind.

### Mitsubishi Heavy Industries Group

For over 130 years, Mitsubishi Heavy Industries (MHI) Group offers world-class innovative, integrated, and sustainable technologies and solutions to create a better future for the world. We use a forward-thinking approach and deep industrial knowledge to bring together people, businesses, and ideas to achieve shared success.

As a global leader in engineering and manufacturing, MHI Group delivers innovative and integrated solutions across a wide range of industries from commercial aviation and transportation to power plants and gas turbines, and from machinery and infrastructure to integrated defense and space systems.

\* More information on engines above 3,604 kWm available upon request.



### Power Generation Engines

MODEL RANGE

	10 kWm	50 kWm	100 kWm	1000 kWm	10,000 kWm
	6.2	High Speed (<100 kWm)		67.8	
				359	High Speed (>100 kWm)
					3,037
				1,214	Medium Speed
					3,604

UNIT: kWm

■ Diesel engines

# TECHNICAL INFORMATION

## Non Emission | High Speed < 100 kWm

	Output kWm / kVA				Hz	rpm
	Stand-by		Prime			
<b>L3E</b>	7.3	8.6	6.2	7.3	50	1,500
<b>S3L2</b>	10.5	11.7	9.4	10.4	50	1,500
<b>S4L2</b>	15.3	17.0	13.9	15.4	50	1,500
<b>S4L2-T</b>	18.4	21.6	x	x	50	1,500
<b>S4Q2</b>	21.5	23.9	19.6	21.8	50	1,500
<b>S4S</b>	30.9	34.3	28.0	31.3	50	1,500
<b>S4S-DT</b>	40.5	45.0	36.8	40.9	50	1,500
<b>S6S</b>	46.5	50.7	44.3	45.8	50	1,500
<b>S6S-DT</b>	61.0	67.8	55.2	61.3	50	1,500
<b>S3L2</b>	19.3	21.4	16.6	18.4	50	2,970
<b>S4L2</b>	25.1	27.9	21.6	24.0	50	3,000

## Emission EU Stage V | High Speed < 100 kWm

	Output kWm / kVA				Hz	rpm
	Stand-by		Prime			
<b>L3E</b>	7.5	8.8	6.4	7.5	50	1,485
<b>S3L2</b>	11.0	12.9	9.9	11.6	50	1,485
<b>S4L2</b>	16.0	18.8	14.6	17.2	50	1,485
<b>S4L2-T</b>	18.4	21.6	x	x	50	1,500
<b>L2E</b>	10.0	11.8	8.7	10.1	50	2,970
<b>L3E</b>	15.8	18.6	13.7	16.1	50	2,970

## Non Emission | High Speed > 100 kWm

	Output kWm / kVA				Hz	rpm
	Stand-by		Prime			
<b>S6B3-PTA</b>	359	426	324	385	50	1,500
<b>S6A3-PTA</b>	430	511	390	463	50	1,500
<b>S6R-PTA</b>	555	659	500	594	50	1,500
<b>S6R2-PTA</b>	635	754	575	683	50	1,500
<b>S12A2-PTA</b>	724	860	657	780	50	1,500
<b>S12A2-PTA2</b>	818	971	742	881	50	1,500
<b>S12H-PTA</b>	980	1,164	890	1,057	50	1,500
<b>S12H-PTA</b> <small>Switchable</small>	1,020	1,211	930	1,104	50	1,500
<b>S12R-PTA</b>	1,220	1,449	1,110	1,318	50	1,500
<b>S12R-PTA-D</b> <small>Switchable</small>	x	x	1,110	1,318	50	1,500
<b>S12R-PTA2</b>	1,315	1,562	1,195	1,419	50	1,500
<b>S12R-PTAA2</b>	1,441	1,711	1,314	1,560	50	1,500
<b>S16R-PTA</b>	1,620	1,924	1,480	1,758	50	1,500
<b>S16R-PTA2</b>	1,790	2,126	1,630	1,936	50	1,500
<b>S16R-PTAA2</b>	1,939	2,303	1,728	2,052	50	1,500
<b>S16R2-PTAW</b>	2,167	2,573	1,960	2,328	50	1,500
<b>S16R2-PTAW-E</b>	2,275	2,702	x	x	50	1,500
<b>S16R2-PTAW2-E</b>	2,430	3,037	x	x	50	1,500
<b>S6B3-PTA</b>	400	475	360	428	60	1,800
<b>S6A3-PTA</b>	490	582	440	523	60	1,800
<b>S6R2-PTA</b>	520	618	470	558	60	1,200
<b>S6R-PTA</b>	635	754	575	683	60	1,800
<b>S12A2-PTA</b>	820	974	731	868	60	1,800
<b>S12A2-PTA2</b>	920	1,093	834	990	60	1,800
<b>S12H-PTA</b>	1,080	1,283	980	1,164	60	1,800
<b>S12H-PTA</b> <small>Switchable</small>	1,120	1,330	990	1,176	60	1,800
<b>S12R-PTA</b>	1,320	1,568	1,190	1,413	60	1,800
<b>S12R-PTA2</b>	1,470	1,746	1,340	1,591	60	1,800
<b>S12R-PTAA2</b>	1,633	1,939	1,484	1,762	60	1,800
<b>S16R-PTA</b>	1,750	2,078	1,590	1,888	60	1,800
<b>S16R-PTA2</b>	1,950	2,316	1,775	2,108	60	1,800
<b>S16R-PTAA2</b>	2,149	2,552	1,939	2,303	60	1,800

# TECHNICAL INFORMATION

## Emission EPA Tier II | High Speed > 100 kWm

	Output kWm / kVA				Hz	rpm
	Stand-by		Prime			
<b>S6R-A2PTAW*</b>	595	707	541	642	50	1,500
<b>S6R2-A2PTAW2*</b>	772	917	702	834	50	1,500
<b>S12R-A2PTAW*</b>	1,225	1,455	1,114	1,323	50	1,500
<b>S12R-A2PTAW2*</b>	1,462	1,736	1,329	1,578	50	1,500
<b>S16R-A2PTAW*</b>	1,710	2,031	1,555	1,847	50	1,500
<b>S16R-A2PTAW2*</b>	1,947	2,312	1,777	2,110	50	1,500
<b>S16R2-A2PTAW*</b>	2,167	2,573	1,960	2,328	50	1,500

\* Self-certification

## Emission <2,000Mg NOx | High Speed > 100 kWm

	Output kWm / kVA				Hz	rpm
	Stand-by		Prime			
<b>S12R-F1PTAW2</b>	1,462	1,736	1,329	1,578	50	1,500
<b>S16R-F1PTAW2</b>	1,947	2,312	1,777	2,110	50	1,500
<b>S16R2-F1PTAW</b>	2,167	2,573	1,960	2,328	50	1,500

## Non Emission | Medium Speed

	Output kWm / kVA				Hz	rpm
	Stand-by		Prime			
<b>S6U-PTA</b>	1,259	1,495	1,214	1,442	50	1,000
<b>S6U2-PTA</b>	1,395	1,657	1,306	1,551	50	1,000
<b>S8U-PTA</b>	1,678	1,993	1,619	1,923	50	1,000
<b>S12U-PTA</b>	2,518	2,990	2,429	2,885	50	1,000
<b>S16U-PTA</b>	3,357	3,987	3,238	3,846	50	1,000
<b>S6U-PTA</b>	1,128	1,340	1,091	1,296	60	900
<b>S6U-PTA</b>	1,352	1,6045	1,288	1,530	60	1,200
<b>S6U2-PTA</b>	1,256	1,492	1,194	1,418	60	900
<b>S8U-PTA</b>	1,503	1,785	1,455	1,728	60	900
<b>S8U-PTA</b>	1,802	2,140	1,717	2,039	60	1,200
<b>S12U-PTA</b>	2,255	2,678	2,182	2,591	60	900
<b>S12U-PTA</b>	2,703	3,210	2,576	3,059	60	1,200
<b>S16U-PTA</b>	3,007	3,571	2,910	3,456	60	900
<b>S16U-PTA</b>	3,604	4,280	3,434	4,078	60	1,200

COP available on request.

### CALCULATIONS

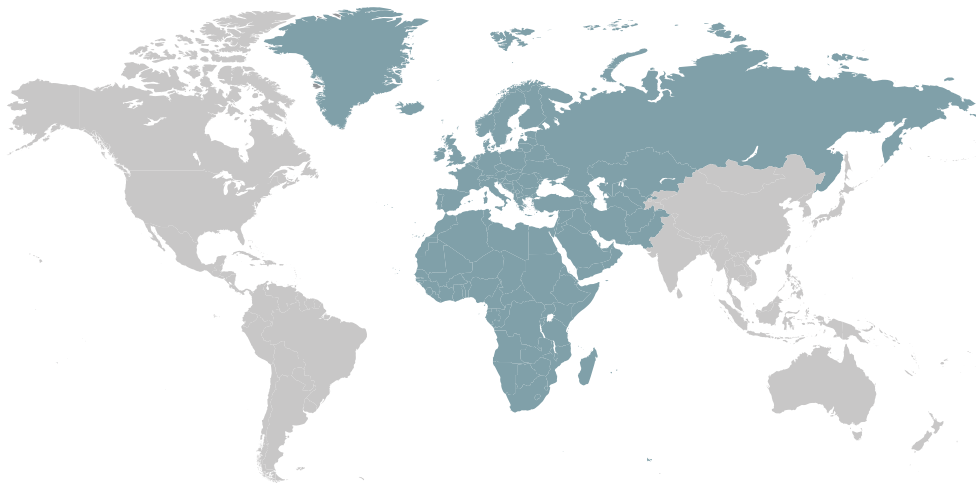
Engines <100 kWm | kVA rating based on 85% alternator efficiency for L, SL series and 90% alternator efficiency for SQ, SS series.  
Engines >100 kWm | kVA ratings based on 95% alternator efficiency and power factor of 0.8. output is in kWm excluding fan-loss.

### DISCLAIMER

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## Your loyal, reliable partner since 1917

In 1917, Mitsubishi Heavy Industries (MHI) became the first Japanese company to develop and build a diesel engine, and since then has steadfastly pioneered technologies for the reciprocating engine. MHI offers a broad line-up, ranging from construction machinery and marine engines to engines for power generation. In recent years, the company has been involved in the general development of advanced gas turbines, rocket engines, and other types of internal combustion engines, even as it continues to look at the true significance and its decades-long quest to further refine the reciprocating engine.



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