



Power Generation generator sets - 400 kVA to 15 MW

MGS B/C/HV diesel range

MUG diesel range

KU diesel range

GSR gas range

KU gas range

- Stand-by, prime power & continuous power and cogeneration
- Full range from 400 kVA to 15 MW
- Suitable for power plants
- Cogeneration energy packages



Advanced technology

We can offer you highly reliable generator sets and cogeneration energy packages.



Global Reach

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

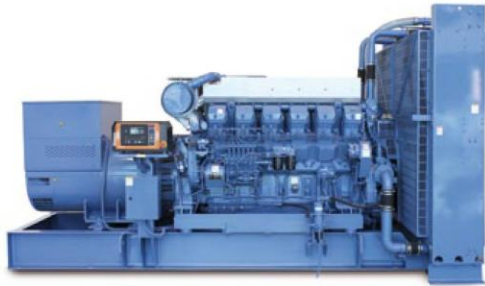
Quality

Our generator sets are built with the well known and reliable Mitsubishi engines, Mitsubishi Turbo's and a top quality brand of alternators making them outstandingly reliable and excellent in performance. We have a relentless focus on product quality and production management which makes us a reliable partner for customers for many years.

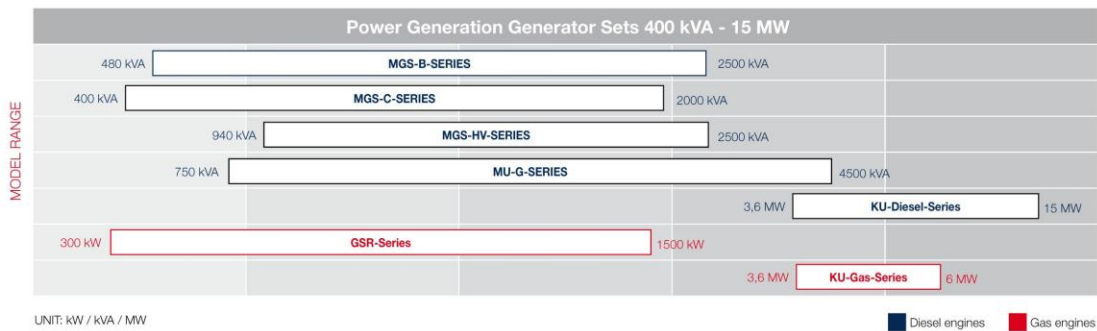
Application engineering

Our engineers will support you all the way in your process to choose and implement the right generator set.

A dedicated application engineer with deep knowledge of our engines, generator sets and your needs will be connected to you to speed up the process. We believe in personal attention and in the discussions with you we will be able to find the best possible solution for you.



*MGS 1400B:
16 kVA stand-by
and 1450 kVA prime*



MGS-B-series Stand-by / Prime Rating

50 Hz, 1500 rpm, with fan, 380V				
Set Model	Engine Model	Code Std-by: 5S- Prime: 5P-	Approved rating	
			Std-by (kVA)	Prime (kVA)
MGS2700B	S16R2-PTAW	KT84	2500	2250
MGS2500B	S16R-PTAA2	KT83	2290	2035
MGS2000B	S16R-PTA2-S	KT83	2235	2030
MGS1500B	S16R-PTA-S	7PF	2000	1800
MGS1500B	S16R-PTA-S	7PD	1675	1600
MGS1400B	S12R-PTA2-S	7PD	1600	1450
MGS1200B	S12R-PTA-S	7PD	1500	1362.5
MGS1000B	S12H-PTA-S	7PC	1250	1125
MGS1000B	S12H-PTA-S	H6J	1050	1000
MGS0900B	S12A2-PTA2-S	H6J	1000	885
MGS0700B	S6R2-PTAA-S	H6H	880	800
MGS0650B	S6R2-PTA-S	H6G	780	700
MGS0500B	S6R-PTA-S	H5F	690	625
MGS0500B	S6A3-PTAA-S	H5E	580	530
MGS0450B	S6A3-PTA-S	H5D	515	480

60 Hz, 1800 rpm, with fan, 480V				
Set Model	Engine Model	Code Std-by: 6S- Prime: 6P-	Approved rating	
			Std-by (kVA)	Prime (kVA)
MGS2500B	S16R-PTAA2	7PF	2012	1820
MGS2000B	S16R-PTA2-S	7PE	1900	1730
MGS1500B	S16R-PTA-S	7PD	1680	1550
MGS1400B	S12R-PTA2-S	7PC	1420	1280
MGS1200B	S12R-PTA-S	7PB	1260	1150
MGS1000B	S12H-PTA-S	H6J	1070	960
MGS0900B	S12A2-PTA2-S	H6H	870	790
MGS0500B	S6R-PTA-S	H5F	630	570
MGS0500B	S6A3-PTAA-S	K5D	500	460
MGS0450B	S6A3-PTA-S	H5C	480	435

Stand-by: Code: S

Applicable for supplying emergency power at varying load in the event of normal utility power interruption. Fuel stop power in accordance with ISO15550, ISO3046/1, JIS9002-1, DIN6271 and BS5514.
Overload: not allowed

Prime: Code: P

Applicable for supplying emergency power at varying load in the event of normal utility power interruption. Fuel stop power in accordance with ISO15550, ISO3046/1, JIS9002-1, DIN6271 and BS5514.

Conditions:

Engine rating are based on SAE J1349 standard conditions and also apply at ISO3046/1, DIN6271 & BS5514 standard conditions.
Fuel rates: based on ASTM D975, BS2869 and on fuel oil of 35° API (16°C or 60°F) Gravity having a LHV of 42,780 kJ/kg (18,390 Btu/lb.) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs./U.S. Gal.).

Note: For conditions of prime power (PRP) and additional rating requirements, please consult your nearest Mitsubishi MGS dealer.

60 Hz, 1800 rpm, With Fan, 380V				
Set Model	Engine Model	Code Std-by: 6S- Prime: 6P-	Approved rating	
			Std-by (kVA)	Prime (kVA)
MGS2500B	S16R-PTAA2	73PF	2000	1800
MGS2000B	S16R-PTA2-S	73PF	1900	1730
MGS1500B	S16R-PTA-S	73PF	1700	1550
MGS1400B	S12R-PTA2-S	73PD	1415	1280
MGS1200B	S12R-PTA-S	73PD	1265	1145
MGS1000B	S12H-PTA-S	73PD	1070	970
MGS0900B	S12A2-PTA2-S	H6J	860	785
MGS0500B	S6R-PTA-S	H6G	620	560
MGS0500B	S6A3-PTAA-S	H5E	500	460
MGS0450B	S6A3-PTA-S	H5E	480	435

MGS-C-series Prime / Continuous Rating

50 Hz, 1500 rpm, With Fan, 380 V						60 Hz, 1800 rpm, With Fan, 480 V					
Set Model	Engine Model	Prime		Continuous		Set Model	Engine Model	Prime		Continuous	
		Code 5CP-	Approved Rating (kVA)	Code 5C-	Approved Rating (kVA)			Code 6CP-	Approved Rating (kVA)	Code 6C-	Approved Rating (kVA)
MGS2700C	S16R2-PTAW	KT84	2250	KT84	1900	MGS2500C	S16R-PTAA2	7PF	1820	-	-
MGS2500C	S16R-PTAA2	KT83	2000	-	-	MGS2000C	S16R-PTA2-S	7PE	1650	-	-
MGS2000C	S16R-PTA2-S	KT83	1935	-	-	MGS1500C	S16R-PTA-S	7PD	1470	7PD	1250
MGS1500C	S16R-PTA-S	7PF	1735	7PE	1550	MGS1400C	S12R-PTA2-S	7PC	1220	-	-
MGS1400C	S12R-PTA2-S	7PD	1390	-	-	MGS1200C	S12R-PTA-S	7PB	1080	H6J	910
MGS1200C	S12R-PTA-S	7PD	1287.5	7PB	1130	MGS1000C	S12H-PTA-S	H6J	920	H6J	830
MGS1000C	S12H-PTA-S	7PC	1055	H6K	950	MGS0900C	S12A2-PTA2-S	H6H	740	H5F	620
MGS0900C	S12A2-PTA2-S	H6J	770	H6G	685	MGS0500C	S6R-PTA-S	H5F	540	H5D	460
MGS0700C	S6R2-PTAA-S	H6H	750	-	-	MGS0500C	S6A3-PTAA-S	K5D	430	-	-
MGS0650C	S6R2-PTA-S	H6G	665	H5F	550	MGS0450C	S6A3-PTA-S	H5C	410	H4F	345
MGS0500C	S6R-PTA-S	H5F	560	H5E	500						
MGS0500C	S6A3-PTAA-S	H5E	500	-	-						
MGS0450C	S6A3-PTA-S	H5D	450	H5C	385						

Prime: Code: CP

Applicable for supplying power with varying load instead of the utility for an unlimited time. Prime power in accordance with ISO 8528.

Continuous: Code: C

Applicable for supplying power continuously. Continuous power in accordance with ISO8525, ISO15550, ISO3046/1, JIS8002-1 and BS5514.

Conditions:

Rating are based n SAE J1349 standard conditions. These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions. Fuel rates are based on fuel oil of 35° API (16°C or 60°F) gravity having an LHV of 42,780 kJ/kg (18,390 Btu/U.S. Gal.).

Note: Please consult with your nearest Mitsubishi MGS dealers for overload and additional rating requirements. Specifications and some materials may be changed without notice.

60 Hz, 1800 rpm, With Fan, 380 V					
Set Model	Engine Model	Prime		Continuous	
		Code 6CP-	Approved Rating (kVA)	Code 6C-	Approved Rating (kVA)
MGS2500C	S16R-PTAA2	73PF	1800	-	-
MGS2000C	S16R-PTA2-S	73PF	1640	-	-
MGS1500C	S16R-PTA-S	73PF	1470	73PD	1240
MGS1400C	S12R-PTA2-S	73PD	1220	-	-
MGS1200C	S12R-PTA-S	73PD	1080	73PD	920
MGS1000C	S12H-PTA-S	73PD	920	H6K	830
MGS0900C	S12A2-PTA2-S	H6J	740	H6G	580
MGS0500C	S6R-PTA-S	H6G	520	H5F	455
MGS0500C	S6A3-PTAA-S	H5E	430	-	-

MGS-HV-series Genset Rating*

50 Hz Stand-by Rating Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS2700HV	S16R2-PTAW	2500	2500	2500	2500
MGS2500HV	S16R-PTAA2	2250	2250	2250	2250
MGS2000HV	S16R-PTA2-S	2200	2200	2200	2200
MGS1500HV	S16R-PTA-S	2000	2000	2000	2000
MGS1400HV	S12R-PTA2-S	1575	1575	1575	1575
MGS1200HV	S12R-PTA-S	1475	1475	1475	1475
MGS1000HV	S12H-PTA-S	1225	1225	1225	1225

50 Hz Prime with 10% overload Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS2700HV	S16R2-PTAW	2250	2250	2250	2250
MGS2500HV	S16R-PTAA2	2010	2010	2010	2010
MGS2000HV	S16R-PTA2-S	2000	2000	2000	2000
MGS1500HV	S16R-PTA-S	1810	1810	1810	1810
MGS1400HV	S12R-PTA2-S	1450	1450	1450	1450
MGS1200HV	S12R-PTA-S	1350	1350	1340	1340
MGS1000HV	S12H-PTA-S	1060	1100	1100	1100

50 Hz Prime Rating Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS2500HV	S16R-PTAA2	2000	2000	2000	2000
MGS2000HV	S16R-PTA2-S	1900	1900	1900	1900
MGS1500HV	S16R-PTA-S	1700	1700	1700	1700
MGS1400HV	S12R-PTA2-S	1380	1380	1380	1380
MGS1200HV	S12R-PTA-S	1280	1280	1270	1270
MGS1000HV	S12H-PTA-S	1050	1050	1040	1040

50 Hz Continuous Rating Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS1500HV	S16R-PTA-S	1560	1550	1540	1540
MGS1200HV	S12R-PTA-S	1140	1140	1130	1130
MGS1000HV	S12H-PTA-S	940	945	935	935

60 Hz Stand-by Rating Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS2500HV	S16R-PTAA2	2000	2000	2000	2000
MGS2000HV	S16R-PTA2-S	1850	1920	1850	1850
MGS1500HV	S16R-PTA-S	1575	1700	1575	1575
MGS1400HV	S12R-PTA2-S	1420	1420	1410	1410
MGS1200HV	S12R-PTA-S	1270	1270	1260	1260
MGS1000HV	S12H-PTA-S	1070	1070	1070	1060

60 Hz Prime Rating Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS2500HV	S16R-PTAA2	1800	1800	1800	1800
MGS2000HV	S16R-PTA2-S	1650	1650	1640	1640
MGS1500HV	S16R-PTA-S	1460	1470	1460	1460
MGS1400HV	S12R-PTA2-S	1225	1230	1220	1220
MGS1200HV	S12R-PTA-S	1080	1080	1070	1070
MGS1000HV	S12H-PTA-S	930	920	920	910

60 Hz Continuous Rating Selection Table					
Set Model	Engine Model	3.3 kV	6.6 kV	10 kV	11 kV
MGS1500HV	S16R-PTA-S	1250	1250	1240	1240
MGS1200HV	S12R-PTA-S	920	920	910	910
MGS1000HV	S12H-PTA-S	830	830	820	810

Notice:
 - For other voltage and overload requirement, please consult with your nearest Mitsubishi MGS dealer.
 - Photographs are with option devices
 - Specifications are subject to change without prior notice

MGS-HV-series

Temperature Rise and Insulation Class list

	Voltage	Insulation	Base Temp (°C)	Rise Temp (°C)	Referred
Stand-by Prime with 10% overload	3.3, 16 kV	H	40	150	Peak
	6.6, 10, 11, 13.8 kV	F	40	130	Peak
Prime	3.3, 16 kV	H	40	125	H
	6.6, 10, 11, 13.8 kV	F	40	105	F
Continuous	3.3, 16 kV	H	40	105	F
	6.6, 10, 11, 13.8 kV	F	40	80	B

Rating Definition

Rating	Code	Definition
Stand-by	S	Applicable for supplying emergency power at varying load in the event of normal utility power interruption. Fuel stop power in accordance with ISO15550, ISO3046/1, JIS8002-1, DIN6271 and BS5514.
Prime with 10% overload	P	Applicable for supplying emergency power at varying of normal utility power interruption. Fuel stop power in accordance with ISO15550, ISO3046/1, JIS8002-1, DIN6271 and BS5514.
Prime	CP	Applicable for supplying power with varying load instead of the utility for an unlimited time. Prime power in accordance with ISO 8528.
Continuous	C	Applicable for supplying power continuously. Continuous power in accordance with ISO 8528, ISO15550, ISO3046/1, JIS8002-1, and BS5514.
Conditions		Engine ratings are based on SAE J1349 standard conditions and also apply at ISO3046/1, DIN6271 & BS5514 standard conditions. Fuel rates: based on ASTM D975, BS2869 and on fuel oil of 35° API (16°C or 60°F) gravity having a LHV of 42,780 kJ/kg (18,390 Blu/lb.) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs./US. Gal.).

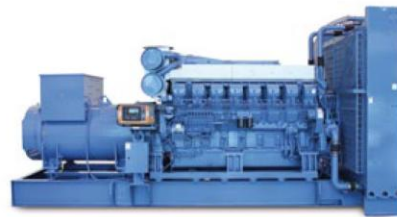
MU-G-series

Rated Output / 50Hz

Model Name (kVA)	M6U-G		M6U2-G		M8U-G		M12U-G		M12U3-G	M16U-G		
	PTA	PTK	PTA	PTK	PTA	PTK	PTA	PTK	PTK	PTA	PTK	
Stand-by	1000min ⁻¹	1,500	1,600	1,655	1,760	2,000	2,140	3,000	3,200	-	4,000	4,280
	750min ⁻¹	1,055	1,150	1,235	1,325	1,410	1,535	2,115	2,300	-	2,820	3,075
Prime	1000min ⁻¹	1,440	1,540	1,550	1,650	1,900	2,050	2,885	3,075	-	3,850	4,100
	750min ⁻¹	960	1,055	1,125	1,200	1,275	1,400	1,920	2,115	-	2,560	2,800
Continuous (C)	1000min ⁻¹	1,300	1,380	1,405	1,500	1,725	1,845	2,590	2,765	3,750	3,450	3,685
	750min ⁻¹	865	960	1,015	1,080	1,150	1,280	1,730	1,900	-	2,300	2,560
Continuous (D)	1000min ⁻¹	1,190	1,270	1,290	1,375	1,585	1,690	2,375	2,535	3,750	3,170	3,385
	750min ⁻¹	775	865	915	970	1,035	1,150	1,555	1,700	-	2,075	2,300

Rated Output / 60Hz

Model Name (kVA)	M6U-G		M6U2-G		M8U-G		M12U-G		M12U3-G	M16U-G		
	PTA	PTK	PTA	PTK	PTA	PTK	PTA	PTK	PTK	PTA	PTK	
Stand-by	1200min ⁻¹	1,600	1,685	-	-	2,140	2,250	3,200	3,375	-	4,280	4,500
	900min ⁻¹	1,340	1,450	1,500	1,600	1,785	1,930	2,675	2,900	-	3,570	3,865
	720min ⁻¹	1,000	1,085	1,175	1,225	1,330	1,450	2,000	2,175	-	2,660	2,900
Prime	1200min ⁻¹	1,530	1,625	-	-	2,035	2,165	3,060	3,250	-	4,075	4,335
	900min ⁻¹	1,300	1,395	1,400	1,515	1,725	1,855	2,600	2,800	-	3,455	3,700
	720min ⁻¹	900	1,000	1,065	1,140	1,200	1,330	1,815	2,000	-	2,420	2,660
Continuous (C)	1200min ⁻¹	1,365	1,460	-	-	1,815	1,950	2,725	2,920	3,375	3,635	3,900
	900min ⁻¹	1,170	1,265	1,275	1,400	1,560	1,685	2,335	2,500	-	3,115	3,375
	720min ⁻¹	1,170	1,265	1,275	1,400	1,560	1,685	2,335	2,500	-	3,115	3,375
Continuous (D)	1200min ⁻¹	1,225	1,315	-	-	1,635	1,750	2,455	2,630	-	3,275	3,500
	900min ⁻¹	1,090	1,140	1,200	1,270	1,400	1,520	2,100	2,280	3,375	2,800	3,000
	720min ⁻¹	735	815	860	930	980	1,090	1,470	1,630	-	1,960	2,175



MGS 2000B

KU-diesel

	12KU30A	14KU30A	16KU30A	18KU30A
Type	4 cycle, V-type and trunk piston type, water-cooled, diesel engine	4 cycle, V-type and trunk piston type, water-cooled, diesel engine	4 cycle, V-type and trunk piston type, water-cooled, diesel engine	4 cycle, V-type and trunk piston type, water-cooled, diesel engine
Aspiration	Turbocharged	Turbocharged	Turbocharged	Turbocharged
Number of cylinders	12	14	16	18
Bore x stroke mm	300 x 380	300 x 380	300 x 380	300 x 380
Displacement Ltr	322	375	430	322
Combustion system	Direct injection	Direct injection	Direct injection	Direct injection
Fuel	Diesel fuel oil No.2-No.6, Heavy Fuel Oil (HFO)	Diesel fuel oil No.2-No.6, Heavy Fuel Oil (HFO)	Diesel fuel oil No.2-No.6, Heavy Fuel Oil (HFO)	Diesel fuel oil No.2-No.6, Heavy Fuel Oil (HFO)
Dry weight metric ton	40	48	54	60
Output KWe/rpm 50Hz Cont 750 rpm	3920	4570	5230	5880
Output KWe/rpm 60Hz Cont 720 rpm	3760	4390	5020	5650
NOx Emission ppm*	710-780 (O2:15%)	710-780 (O2:15%)	710-780 (O2:15%)	710-780 (O2:15%)
Dimensions engine mm L x W x H	6355x2900x3400	7145x2900x3720	7685x2900x3720	8225x2900x3720

* NOx value to be determined referring to local regulation

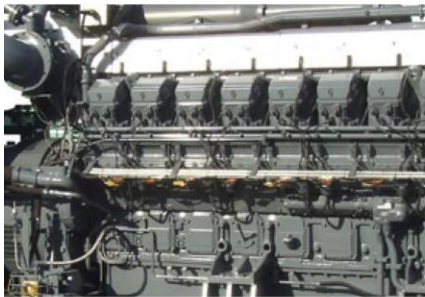


S16R installed in Amiens Hospital, France

GSR-series (Miller cycle*)

		GS6RPTK	GS6R2PTK	GS12RPTK	GS16RPTK	GS16R2PTK
Type		4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine
Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged
Number of cylinders		6	6	12V	16V	16V
Bore x stroke mm		170x180	170x220	170x180	170x180	170x220
Displacement Ltr		24,52	29,96	49,03	65,37	79,9
Combustion system		Prechamber, Spark Ignited	Prechamber, Spark Ignited	Prechamber, Spark Ignited	Prechamber, Spark Ignited	Prechamber, Spark Ignited
Fuel		Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Dry weight 50Hz / 60Hz kg		2400 / 2400	2650 / 2650	5350 / 5350	6770 / 6830	8105 / 7815
Continuous 'C' power rating output kWm hp	50Hz 1500rpm 60Hz 1200rpm	363 315	na 394	722 632	959 845	1563 1031
Emission compliance		—	—	—	—	—
Dimensions mm	L x H x W	1989 x 1638 x 1123	1989 x 1718 x 1123	2396 x 2137 x 1832	2876 x 2137 x 1820	3422 x 2122 x 2164

* also available as Lean-Burn



Common rail



GSR-series

KU-gas

		12KU30A GSI	14KU30A GSI	16KU30A GSI	18KU30A GSI
Type		4 cycle, V-type and trunk piston type, water-cooled, gas engine	4 cycle, V-type and trunk piston type, water-cooled, gas engine	4 cycle, V-type and trunk piston type, water-cooled, gas engine	4 cycle, V-type and trunk piston type, water-cooled, gas engine
Aspiration		turbocharged	turbocharged	turbocharged	turbocharged
Number of cylinders		12	14	16	18
Bore x stroke mm		300 x 380	300 x 380	300 x 380	300 x 380
Displacement Ltr		322	375	430	483
Combustion system		Direct injection	Direct injection	Direct injection	Direct injection
Fuel		Natural Gas*	Natural Gas*	Natural Gas*	Natural Gas*
Dry weight metric ton		2300	2300	2400	2400
Continuous 'C' power rating output kW	50Hz 750rpm	3800	4450	5100	5750
hp	60Hz 720rpm	3650	4250	4900	5500
NOx Emission ppm		320 or less (O2: 0%), 92 or less (O2:15%)*	320 or less (O2: 0%), 92 or less (O2:15%)*	320 or less (O2: 0%), 92 or less (O2:15%)*	320 or less (O2: 0%), 92 or less (O2:15%)*
Dimensions mm	L x W x H	6355 x 2900 x 3400	7145 x 2900 x 3720	7685 x 2900 x 3720	8225 x 2900 x 3720

* Also available with Micro-Pilot injection, for gas fuels such as coal mine, methane, digester and landfill.



KU installed in Pakistan

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