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MITSUBISHI GENERATOR SERIES MGS – the way to serve customers
 Best available Products with the best possible value
 Best quality Service Support with the sense of urgency
 Beyond the customer's expectation.

Your local Mitsubishi MGS genset dealer can advise you
 on the right selection of MGS genset for your application,
 deliver and install the units properly, and provide daily
 maintenance training, as well as the preventive maintenance
 on demand, to support higher productivity in economical way.
 Well trained and experienced professionals strive for
 excellence in all they do.



Mitsubishi Heavy Industries Engine & Turbocharger, Ltd. serves
 customers by providing continually improved products.
 Therefore specifications and some materials may be changed without notice.

 Please read the accompanying instruction manual and
 all caution labels before operating equipment.

 **MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.**

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MITSUBISHI GENERATOR SERIES

MGS-HV

Updated



 **MITSUBISHI HEAVY INDUSTRIES
 ENGINE & TURBOCHARGER, LTD.**

Our Technologies, Your Tomorrow

RELIABILITY AND QUALITY IN POWER GENERATION

The growing strength of the Mitsubishi Brand name: **MITSUBISHI GENERATOR SERIES "MGS"**
 The core of the MGS-HV genset is now -S typed diesel engines for MGS-HV Power Rating



MITSUBISHI GENERATOR SERIES

MGS-HV

Standard Specification

VPI(Vacuum-Pressure Impregnation) with Epoxy resin.
 IEC Class H Insulation generator
 Built-in AVR for 3.3 kV and 4.16 kV generator
 Loose supply AVR for 6.6 kV, 10 kV, 11 kV and 13.8 kV generator
 Degree of Protection : IP-23 for Generator Enclosure
 Degree of Protection : IP-44 for Terminal Box

PMG(Permanent Magnet Generator(Exciter))
 6 Numbers Pt 100 ohms RTD for Stator
 1 or 2 Numbers Pt 100 ohms RTD for Bearing(s)
 Three-Phase sensing type AVR with V/Hz control
 Commercial type Space Heater
 Form-Wound Stator and Salient pole Rotor
 40 deg. C and 1000 mASL IEC Standard conditions

MGS-HV GENSET RATING

| 50 Hz Stand-by Rating Selection Table | | | | | | |
|---------------------------------------|---------------|-----|--------|--------|-------|-------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 6.6 kV | 10 kV | 11 kV |
| MGS2800HV | S16R2-PTAW2-S | kVA | 2750 | 2750 | 2750 | 2750 |
| MGS2700HV | S16R2-PTAW | kVA | 2500 | 2500 | 2500 | 2500 |
| MGS2500HV | S16R-PTAA2 | kVA | 2250 | 2250 | 2250 | 2250 |
| MGS2000HV | S16R-PTA2-S | kVA | 2200 | 2200 | 2200 | 2200 |
| MGS1500HV | S16R-PTA-S | kVA | 2000 | 2000 | 2000 | 2000 |
| MGS1400HV | S12R-PTA2-S | kVA | 1575 | 1600 | 1600 | 1600 |
| MGS1200HV | S12R-PTA-S | kVA | 1475 | 1475 | 1475 | 1475 |
| MGS1000HV | S12H-PTA-S | kVA | 1225 | 1225 | 1225 | 1225 |

| 50 Hz Prime Selection Table | | | | | | |
|-----------------------------|---------------|-----|--------|--------|-------|-------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 6.6 kV | 10 kV | 11 kV |
| MGS2800HV | S16R2-PTAW2-S | kVA | 2500 | 2500 | 2500 | 2500 |
| MGS2700HV | S16R2-PTAW | kVA | 2250 | 2250 | 2250 | 2250 |
| MGS2500HV | S16R-PTAA2 | kVA | 2010 | 2010 | 2010 | 2005 |
| MGS2000HV | S16R-PTA2-S | kVA | 2000 | 2000 | 2000 | 2000 |
| MGS1500HV | S16R-PTA-S | kVA | 1810 | 1810 | 1800 | 1800 |
| MGS1400HV | S12R-PTA2-S | kVA | 1450 | 1450 | 1450 | 1450 |
| MGS1200HV | S12R-PTA-S | kVA | 1350 | 1350 | 1340 | 1340 |
| MGS1000HV | S12H-PTA-S | kVA | 1060 | 1100 | 1100 | 1100 |

| 50 Hz Prime [PRP] Rating Selection Table | | | | | | |
|--|---------------|-----|--------|--------|-------|-------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 6.6 kV | 10 kV | 11 kV |
| MGS2800HV | S16R2-PTAW2-S | kVA | 2375 | 2375 | 2375 | 2375 |
| MGS2700HV | S16R2-PTAW | kVA | 2250 | 2250 | 2250 | 2250 |
| MGS2500HV | S16R-PTAA2 | kVA | 2000 | 2000 | 2000 | 2000 |
| MGS2000HV | S16R-PTA2-S | kVA | 1900 | 1900 | 1900 | 1900 |
| MGS1500HV | S16R-PTA-S | kVA | 1700 | 1725 | 1725 | 1725 |
| MGS1400HV | S12R-PTA2-S | kVA | 1380 | 1380 | 1380 | 1380 |
| MGS1200HV | S12R-PTA-S | kVA | 1280 | 1280 | 1270 | 1270 |
| MGS1000HV | S12H-PTA-S | kVA | 1050 | 1050 | 1040 | 1040 |

| 50 Hz Continuous Rating Selection Table | | | | | | |
|---|--------------|-----|--------|--------|-------|-------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 6.6 kV | 10 kV | 11 kV |
| MGS2700HV | S16R2-PTAW | kVA | 1900 | 1900 | 1900 | 1900 |
| MGS1500HV | S16R-PTA-S | kVA | 1560 | 1550 | 1540 | 1540 |
| MGS1200HV | S12R-PTA-S | kVA | 1140 | 1140 | 1130 | 1130 |
| MGS1000HV | S12H-PTA-S | kVA | 940 | 945 | 935 | 935 |

| 60 Hz Stand-by Rating Selection Table | | | | | | |
|---------------------------------------|--------------|----|--------|---------|--------|---------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 4.16 kV | 6.6 kV | 13.8 kV |
| MGS2500HV | S16R-PTAA2 | kW | 2000 | 2000 | 2000 | 2000 |
| MGS2000HV | S16R-PTA2-S | kW | 1850 | 1920 | 1850 | 1850 |
| MGS1500HV | S16R-PTA-S | kW | 1575 | 1700 | 1575 | 1575 |
| MGS1400HV | S12R-PTA2-S | kW | 1420 | 1420 | 1410 | 1410 |
| MGS1200HV | S12R-PTA-S | kW | 1270 | 1270 | 1260 | 1260 |
| MGS1000HV | S12H-PTA-S | kW | 1070 | 1070 | 1070 | 1060 |

| 60 Hz Prime [PRP] Rating Selection Table | | | | | | |
|--|--------------|----|--------|---------|--------|---------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 4.16 kV | 6.6 kV | 13.8 kV |
| MGS2500HV | S16R-PTAA2 | kW | 1800 | 1800 | 1800 | 1800 |
| MGS2000HV | S16R-PTA2-S | kW | 1650 | 1650 | 1640 | 1640 |
| MGS1500HV | S16R-PTA-S | kW | 1460 | 1470 | 1460 | 1460 |
| MGS1400HV | S12R-PTA2-S | kW | 1225 | 1230 | 1220 | 1220 |
| MGS1200HV | S12R-PTA-S | kW | 1080 | 1080 | 1070 | 1070 |
| MGS1000HV | S12H-PTA-S | kW | 930 | 920 | 920 | 910 |

| 60 Hz Continuous Rating Selection Table | | | | | | |
|---|--------------|----|--------|---------|--------|---------|
| GEN SET MODEL | ENGINE MODEL | | 3.3 kV | 4.16 kV | 6.6 kV | 13.8 kV |
| MGS1500HV | S16R-PTA | kW | 1250 | 1250 | 1240 | 1240 |
| MGS1200HV | S12R-PTA | kW | 920 | 920 | 910 | 900 |
| MGS1000HV | S12H-PTA-S | kW | 830 | 830 | 820 | 810 |

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, JISB8002-1, DIN6271 and BS5514. |
| Prime | P | Applicable for supplying emergency power at varying load in the event of normal utility power interruption. +10% overload in accordance with ISO3046/1. Overload power in accordance with ISO15550, ISO3046/1, JISB8002-1, DIN6271 and BS5514. |
| Prime [PRP] | CP | Applicable for supplying power with varying load instead of the utility for an unlimited time. +10% overload is allowed in accordance with ISO3046/1. Prime power in accordance with ISO8528. |
| Continuous | C | Applicable for supplying power continuously. Continuous power in accordance with ISO8528, ISO15550, ISO3046/1 JISB8002-1 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 Btu/lb.) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs./U.S. gal.). |

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.