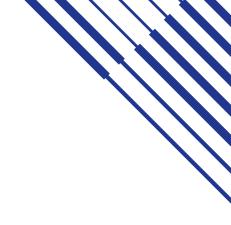


Gas Generator Set



mtu 8V0183 GS260

235 kWe/60 Hz/Prime/208 - 600V Reference *mtu* 8V0183 GS260 (260 kWe) for Standby Rating Technical Data

System ratings

Voltage (L-L)	240V [†]	208V [†]	240V [†]	480V [†]	600V
Phase	1	3	3	3	3
PF	1	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Amps	958	815	707	353	283
kW/kVA	230/230	235/293	235/293	235/293	235/293
skVA@30% voltage dip	520	608	608	809	740
Generator model	572RSL4031	432PSL6210	432PSL6210	432PSL6210	432PSL6246
Temp rise	105 °C/40 °C	105 °C/40 °C	105 °C/40 °C	105 °C/40 °C	105 °C/40 °C
Connection	12 LEAD DOUBLE DELTA	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE

[†] UL 2200 offered

Certifications and standards

- Generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004
- UL 2200 optional (refer to System ratings for availability)
- CSA optional
 - CSA C22.2 No. 100
 - CSA C22.2 No. 14

- Performance Assurance Certification (PAC)
 - Generator set tested to ISO 8528-5 for transient response
 - Verified product design, quality and performance integrity
 - All engine systems are prototype and factory tested
- Power rating
 - Accepts rated load in one step per NFPA 110



Standard features*

- Single source supplier
- Global product support
- Two (2) Year/3,000 Hour Basic Limited Warranty
- 14.6L turbo engine charge air cooling
- 14.6 liter displacement
- 4-cycle
- 3-way catalyst
- Engine-generator resilient mounted
- Complete range of accessories
- Cooling system
- Integral set-mounted
 - Engine-driven fan

Standard equipment*

Engine

- Air cleaner
- Oil pump
- Oil drain extension and shut-off valve
- Full flow oil filter
- Jacket water pump
- Thermostats
- $-\,$ Blower fan and fan drive
- Radiator unit mounted
- Electric starting motor 24V
- Governor electronic isochronous
- Base formed steel
- $-\,$ SAE flywheel and bell housing
- Charging alternator 24V
- $-\,$ Battery box and cables
- Flexible fuel connectors
- Flexible exhaust connection
- EPA certified engine

Generator

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- Sustained short circuit current of up to 300% of the rated current for up to 10 seconds (with PMG only)
- Self-ventilated and drip-proof
- Superior voltage waveform
- Solid state, volts-per-hertz regulator (digital when PMG is standard)
- ± 1% voltage regulation no load to full load
- Brushless alternator with brushless pilot exciter
- 4 pole, rotating field
- 105 °C maximum prime temperature rise
- 1-bearing, sealed
- Flexible coupling
- Full amortisseur windings
- 125% rotor balancing
- 3-phase voltage sensing
- 100% of rated load one step
- 5% maximum total harmonic distortion

- Generator
 - Brushless, rotating field generator
 - 2/3 pitch windings
 - 300% short circuit capability with Permanent Magnet Generator (PMG)
 - PMG standard for 570 frame and larger
 - $\diamond~$ PMG optional for 430 frame and smaller
- Digital control panel(s)
 - UL recognized, CSA certified, NFPA 110
 - Complete system metering
 - LCD display

Digital control panel(s)

- Digital metering
- Engine parameters
- Generator protection functions
- Engine protection
- SAE J1939 engine ECU communications
- Windows[®]-based software
- Multilingual capability
- Communications to remote annunciator
- Programmable input and output contacts
- UL recognized, CSA certified, CE approved
- Event recording
- IP 54 front panel rating with integrated gasket
- NFPA 110 compatible

Application data

Engine

J	
Manufacturer	PSI
Model	14.6L CAC
Туре	4-cycle
Arrangement	8-V
Displacement: L (in³)	14.6 (892)
Bore: cm (in)	12.8 (5.04)
Stroke: cm (in)	14.2 (5.59)
Compression ratio	10.5:1
Rated rpm	1,800
Engine governor	Bosch
Maximum power (NG): kWm (bhp)	270 (302)
Steady state frequency band	± 0.5%
Air cleaner	dry

Liquid capacity

Total oil system: L (gal)	38.1 (10.1)
Engine jacket water capacity: L (gal)	43.2 (9.5)
System coolant capacity: L (gal)	227 (50)

Electrical

Electric volts DC	24
Cold cranking amps under -17.8 °C (0 °F)	1,050
Batteries: group size	4D
Batteries: quantity	2

Fuel inlet

Fuel supply connection size	2" NPT
Fuel supply pressure: mm H_2O (in. H_2O)	178–279 (7–11)

Fuel consumption (NG-1000 BTU/ft³)

At 100% of power rating: m³/hr (ft³/hr)	78.2 (2,760)
At 75% of power rating: m³/hr (ft³/hr)	58 (2,050)
At 50% of power rating: m³/hr (ft³/hr)	40.8 (1,440)
Cooling - radiator system	
Ambient capacity of radiator: °C (°F)	50 (122)*
Maximum restriction of cooling air: intake	
and discharge side of radiator: kPa (in. H ₂ 0)	0.12 (0.5)
Water pump capacity: L/min (gpm)	680 (180)
Heat rejection to coolant: kW (BTUM)	285 (16,189)
Heat radiated to ambient: kW (BTUM)	80.5 (4,580)
Fan power: kW (hp)	16.4 (22)

* Installation of enclosures reduces the ambient capacity of the cooling system by $1\,^{\circ}\text{C}$ (1.8 $^{\circ}\text{F}).$ Gravity exhaust louvers reduce ambient capacity of the cooling system by an additional 3 $^{\circ}\text{C}$ (5.5 $^{\circ}\text{F}).$

Air requirements

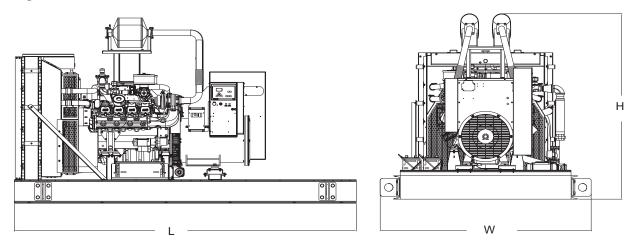
Aspirating: *m³/min (SCFM)	15.6 (532)
Air flow required for radiator	
cooled unit: **m³/min (SCFM)	849 (30,000)
Remote cooled applications; air flow required for	
dissipation of radiated generator set heat for a	
maximum of 25 °F rise: *m ³ /min (SCFM)	293 (10,330)

* Air density = 1.184 kg/m³ (0.0739 lbm/ft³) ** At 0.25 kPa (1 in. $\rm H_2O)$ static pressure and 52 °C (125 °F) at radiator

Exhaust system

Gas temperature (stack): °C (°F)	554 (1,030)
Gas volume at stack temperature: m³/min (CFM)	44.2 (1,560)
Maximum allowable back pressure at	
outlet of engine, before piping: kPa (in. H ₂ 0)	2.5 (10.25)

Weights and dimensions



Drawing above for illustration purposes only, based on standard open power 480 volt generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unit specific template drawings.

System	Dimensions (LxWxH)	Weight
Open Power Unit (OPU)	4,064 x 2,506 x 2,404 mm (160 x 98.6 x 94.6 in)	4,055 kg (8,939 lb)

Weights and dimensions are based on open power units and are estimates only. Consult the factory for accurate weights and dimensions for your specific generator set.

Sound data

Unit type	Prime full load (NG)	Prime full load (LP)
Level 0 (OPU): dB(A)	83.1	C/F

Sound data is provided at 7 m (23 ft). Generator set tested in accordance with ISO 8528-10 and with infinite exhaust.

Emissions data

Fuel type	THC + NO _x	со
Natural gas	0.22	0.06

 All units are in g/hp-hr and are EPA weighted cycle values.
Emission levels of the engine may vary with ambient temperature, barometric pressure, humidity, fuel type and quality, installation parameters, measuring instrumentation, etc. The data was obtained in compliance with US EPA regulations.

Rating definitions and conditions

- Ambient capability factor at 984 ft (300 m). Consult your local *mtu* Distributor for other altitudes.
- Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, ISO-3046/1, BS 5514, and AS 2789. Average load factor: ≤ 75%. For limited running time and base load ratings, consult the factory.
- Nominal ratings at standard conditions: 25 °C and 300 meters (77 °F and 1,000 feet).
- Deration factor:
 - Consult your local *mtu* Distributor for altitude derations.
 - Consult your local *mtu* Distributor for temperature derations.

C/F = Consult Factory/*mtu* Distributor