GAS GENERATOR SET MTU 8V0183 GS260

260 kWe / 60 Hz / Standby 208 - 600V

Reference MTU 8V0183 GS260 (235 kWe) for Prime Rating Technical Data

SYSTEM RATINGS

Sta	nd	by
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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
Natural Gas (NG)					
Amps	1063	902	782	391	313
kW/kVA	255/255	260/325	260/325	260/325	260/325
Liquid Propane (LF	>)				
Amps	625	555	481	241	192
kW/kVA	150/150	160/200	160/200	160/200	160/200
NG and LP					
skVA@30%					
Voltage Dip	520	608	608	809	740
Generator Model	572RSL4031	432PSL6210	432PSL6210	432PSL6210	432PSL6246
Temp Rise	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C
Connection	12 LEAD DOUBLE DELTA	12 LEAD LOW WYE	12 LEAD HI DELTA	12 LEAD HI 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 / CSA Optional
 - UL 2200 Listed
 - CSA Certified

// 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*

- // MTU Onsite Energy is a single source supplier
- // Global Product Support
- // 2 Year Standard Warranty
- // 14.6 L Turbo Engine Charge Air Cooling
- 14.6 Liter Displacement
- 4-Cycle
- // 3-Way Catalyst
- // Optional Fuel System: NG and LP Vapor Dual Fuel
- // Engine-generator resilient mounted
- // Complete Range of Accessories

- // Generator
 - Brushless, Rotating Field Generator
 - 2/3 Pitch Windings
 - 300% Short Circuit Capability with PMG
 - $^{\circ}$ PMG Standard for 570 frame and larger
 - $^{\rm O}$ PMG Optional for 430 frame and smaller
- // Digital Control Panel(s)
 - UL Recognized, CSA Certified, NFPA 110
 - Complete System Metering
 - LCD Display
- // Cooling System
 - Integral Set-Mounted
 - Engine Driven Fan

STANDARD EQUIPMENT*

// Engine

Air Cleaner	Brushless Alternator with Brushless Pilot Exciter
Oil Pump	4 pole, Rotating Field
Oil Drain Extension & S/O Valve	130 °C Maximum Standby Temperature Rise
Full Flow Oil Filter	1 Bearing, Sealed
Jacket Water Pump	Flexible Coupling
Thermostats	Full Amortisseur Windings
Blower Fan & Fan Drive	125% Rotor Balancing
Radiator - Unit Mounted	3-phase Voltage Sensing
Electric Starting Motor - 24V	100% of Rated Load - One Step
Governor – Electronic Isochronous	5% Maximum Total Harmonic Distortion
Base - Formed Steel	
SAE Flywheel & Bell Housing	
Charging Alternator - 24V	<pre>// Digital Control Panel(s)</pre>
Battery Box & Cables	
Flexible Fuel Connectors	Digital Metering
Flexible Exhaust Connection	Engine Parameters
EPA Certified Engine	Generator Protection Functions

// 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

Digital Metering Engine Parameters Generator Protection Functions Engine Protection SAE J1939 Engine ECU Communications Windows®-Based Software Multilingual Capability Remote Communications to RDP-110 Remote Annunciator Programmable Input and Output Contacts UL Recognized, CSA Certified, CE Approved Event Recording IP 54 Front Panel Rating with Integrated Gasket NFPA110 Compatible

* Represents standard product only. Consult Factory/MTU Onsite Energy Distributor for additional configurations.

APPLICATION DATA

// Engine

Manufacturer	Doosan
Model	14.6L CAC
Туре	4-Cycle
Arrangement	8-V
Displacement: L (in ³)	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)	300 (402)
Maximum Power (LP): kWm (bhp)	189 (253)
Speed Regulation	±0.5%
Air Cleaner	Dry

// Liquid Capacity (Lubrication)

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

// Fuel Inlet

Fuel Supply Connection Size	2" NPT
Fuel Supply Pressure: mm H ₂ 0 (in. H ₂ 0)	178-279 (7-11)

// Fuel Consumption (NG-1000 BTU/ft³ / LP-2500 BTU/ft³)

	NG	LPG
At 100% of Power Rating: m ³ /hr (ft ³ /hr)	85 (3,000)	24.3 (858)
At 75% of Power Rating: m ³ /hr (ft ³ /hr)	64.6 (2,280)	17.9 (633)
At 50% of Power Rating: m ³ /hr (ft ³ /hr)	44.7 (1,580)	13.3 (468)

// Cooling - Radiator System

	NG and LPG
Ambient Capacity of Radiator: °C (°F)	50 (122)*
Maximum Restriction of Cooling Air, Intake,	
and Discharge Side of Rad.: 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 °C (1.8 °F). Gravity exhaust louvers reduce ambient capacity of the cooling system by an additional 3 °C (5.5 °F).

// Air Requirements

	NG and LPG
Aspirating: *m ³ /min (SCFM)	15.6 (532)
Air Flow Required for Rad.	
Cooled Unit: **m³/min (SCFM)	849 (30,000)
Remote Cooled Applications;	
Air Flow Required for Dissipation	
of Radiated Gen-set Heat for a	
Max of 25 °F Rise: *m ³ /min (SCFM)	293 (10,330)

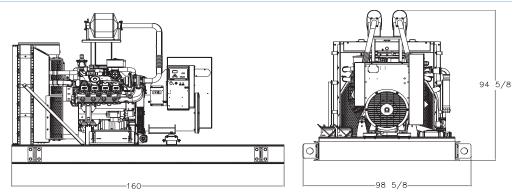
* Air density = 1.184 kg/m³ (0.0739 lbm/ft³)

** At 0.25 kPa (1 in. H_20) static pressure and 52 °C (125 °F) at radiator

// Exhaust System

	NG and LPG
Gas Temp. (Stack): °C (°F)	554 (1,030)
Gas Volume at Stack	
Temp: m³/min (CFM)	44.2 (1,560)
Maximum Allowable	
Back Pressure: 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.



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	Standby Full Load	(NG) Standby Full Load (L
Level 0: Open Power Unit dB(A)	83.1	83

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
Liquid Propane	0.07	0.11

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 Onsite Energy Power Generation Distributor for other altitudes.
- // Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 3046-1, BS 5514, and AS 2789. Average load factor: ≤ 85%.
- // Deration Factor:

Production tolerances in engines and installed components can account for power variations. Altitude, temperature and excessive exhaust and intake restrictions should be applied to power calculations. Consult your local MTU Onsite Energy Power Generation Distributor for derations. © MTU Onsite Energy. Subject to alteration due to technological advances. OE 23 574 (72 3E) 2018-01

C/F = Consult Factory/MTU Onsite Energy Distributor **N/A** = Not Available

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