GAS GENERATOR SET GS260-6S

260 kWe / 60 Hz / Standby 208 - 600V

(Reference GP235N6S for Prime Rating Technical Data)



SYSTEM RATINGS

Standby (NG) (LP)	GS260N6SGA GS260L6SGA	GS260N6SPA GS260L6SPA	GS260N6SJA GS260L6SJA	GS260N6SRA GS260L6SRA	GS260N6SNA GS260L6SNA
Voltage (L-L)	240V**	208V**	240V**	480V**	600V**
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Natural Gas					
Ratings: Amps	1063	902	782	391	313
Natural Gas					
Ratings: kW/kVA	255/255	260/325	260/325	260/325	260/325
_P Gas					
Ratings: Amps	625	555	481	241	192
_P Gas					
Ratings: kW/kVA	150/150	160/200	160/200	160/200	160/200
kVA@30%					
/oltage Dip	520	608	608	809	740
Generator Model	572RSL4031	432PSL6210	432PSL6210	432PSL6210	432PSL6246
emp Rise	130 °C/40 °C				
Connection	12 LEAD ZIG-ZAG	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 Fuels: LP Liquid and 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
 - OPMG Standard for 570 frame and larger
 - OPMG 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
Oil Pump
Oil Drain Extension & S/O Valve
Full Flow Oil Filter
Jacket Water Pump
Thermostats
Blower Fan & Fan Drive
Radiator - Unit Mounted
Electric Starting Motor - 24V
Governor - Electronic Isochronous
Base - Formed Steel
SAE Flywheel & Bell Housing
Charging Alternator - 24V
Battery Box & Cables
Flexible Fuel Connectors
Flexible Exhaust Connection

// Generator

EPA Certified Engine

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

130 °C Maximum Standby 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

// Digital Control Panel(s)

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	
16 Programmable Contact Inputs	
Up to 11 Contact Outputs	
UL Recognized, CSA Certified, CE Approved	
Event Recording	
IP 54 Front Panel Rating with Integrated Gasket	
NFPA 110 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 (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)	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	3" 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: m³/hr (ft³/hr)	85 (3,000)	24.3 (858)
At 75% of Power Rating: m³/hr (ft³/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

Ambient Capacity of Radiator: °C (°F)	50 (122)*	
Maximum Restriction of Cooling Air, Intak	e,	
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)	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

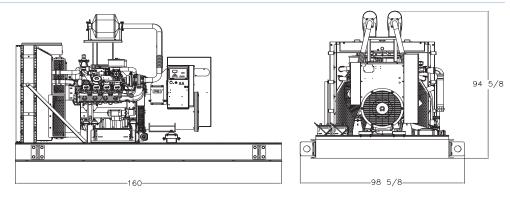
Aspirating: *m³/min (SCFM)	15.6 (532)
Air Flow Required for Rad.	
Cooled Unit: **m³/min (SCFM)	849 (30,000)
Remote Cooled Applications;	
Air Flow Required for Dissipation	
of Radiated Gen-set Heat for a	
Max of 25 °F Rise: *m³/min (SCFM)	293 (10,330)

- * Air density = $1.184 \text{ kg/m}^3 (0.0739 \text{ lbm/ft}^3)$
- ** At 0.25 kPa (1 in. $\rm{H_20})$ static pressure and 52 °C (125 °F) at radiator

// Exhaust System

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.



Dimensions (LxWxH)

4,064 x 2,506 x 2,404 mm (160 x 98.63 x 94.63 in)

Weight (dry)

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	Standby Full Load (NG)	Standby Full Load (LP)
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 D2 cycle values.

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, AS 2789, and DIN 6271.
- // 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.

Materials and specifications subject to change without notice.

C/F = Consult Factory/MTU Onsite Energy Distributor

MTU Onsite Energy