GAS GENERATOR SET MTU 10V0068 GS75

75 kWe / 60 Hz / Standby 208 - 600V



SYSTEM RATINGS

Standby

Voltage (L-L)	240V**	240V**	208V**	240V**	480V**	600V**
Phase	1	1	3	3	3	3
PF	1	1	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60	60
Natural Gas (NG)						
Amps	292	292	243	210	105	84
kW/kVA	70/70	70/70	70/87.5	70/87.5	70/87.5	70/87.5
Liquid Propane (LP)						
Amps	313	313	260	226	113	90
kW/kVA	75/75	75/75	75/93.75	75/93.75	75/93.75	75/93.75
NG and LP						
skVA@30%						
Voltage Dip	311	107	216	216	288	235
Generator Model	363CSL1617	431CSL6202	362CSL1604	362CSL1604	362CSL1604	362PSL1635
Temp Rise	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C	130 °C/40 °C
Connection	4 LEAD	12 LEAD DOUBLE DELTA	12 LEAD LOW WYE	12 LEAD HI DELTA	12 LEAD HI WYE	4 LEAD WYE

**UL2200 Offered

Note: This unit is available with a dual fuel configuration.

CERTIFICATIONS AND STANDARDS

- // Generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004
- // Seismic Certification Optional
 - IBC Certification
 - OSHPD Pre-Approval

// 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
- // 6.8L Engine
 - 6.8 Liter Displacement
 4-Cycle
- // 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 Optional Permanent Magnet Generator (PMG)
- // 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

Heavy Duty Air Cleaner	Brushless Alternator with Brushless Pilot Exciter	
Oil Pump	4 Pole, Rotating Field	
Oil Drain Extension and S/O Valve	130 °C Max. Standby Temperature Rise	
Full Flow Oil Filter	1 Bearing, Sealed	
Jacket Water Pump	Flexible Coupling	
Thermostat	Full Amortisseur Windings	
Blower Fan and Fan Drive	125% Rotor Balancing	
Radiator - Unit Mounted	3-Phase Voltage Sensing	
Electric Starting Motor - 12V	100% of Rated Load - One Step	
Governor – Electronic Isochronous	5% Max. Total Harmonic Distortion	
Base - Formed Steel		
SAE Flywheel and Bell Housing		
Charging Alternator - 12V	<pre>// Digital Control Panel(s)</pre>	
Battery Rack and Cables		
Flexible Exhaust Connection	Digital Metering	
EPA Certified Engine	Engine Parameters	

// 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
Self-Ventilated
Superior Voltage Waveform
Solid State, Volts-per-Hertz Regulator
±1% Voltage Regulation No Load to Full Load Regulation

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	MTU
Model	6.8L V 10
Туре	4-Cycle
Aspiration	Naturally Aspirated
Arrangement	10-V
Displacement: L (in ³)	6.8 (415)
Bore: cm (in)	9 (3.55)
Stroke: cm (in)	10.6 (4.17)
Compression Ratio	9:1
Rated RPM	1,800
Engine Governor	Bosch
Max. Power (NG): kWm (bhp)	85.6 (114.8)
Max. Power (LP): kWm (bhp)	89.4 (119.9)
Speed Regulation	C/F
Air Cleaner	Dry

// Liquid Capacity (Lubrication)

Total Oil System: L (gal)	5.7 (1.5)
Engine Jacket Water Capacity: L (gal)	5.9 (1.55)
System Coolant Capacity: L (gal)	25.58 (6.75)

// Electrical

Electric Volts DC	12
Cold Cranking Amps Under -17.8 °C (0 °F)	925

// Fuel Inlet - Vaporous Supply

Fuel Supply Connection Size	1 1/2" NPT
Fuel Supply Pressure: mm H ₂ 0 (in. H ₂ 0)	178-279 (7-11)

// Fuel Inlet - Liquid Supply

Fuel Supply Connection Size	#6 (3/8") Female SAE 45° Flare
Max. Fuel Supply Pressure: kPa (PSI)	2,150 (312)

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

	NG	LPG
At 100% of Power Rating: m ³ /hr (ft ³ /hr)	27.2 (960)	11.4 (403)
At 75% of Power Rating: m ³ /hr (ft ³ /hr)	21.5 (759)	9.3 (328)
At 50% of Power Rating: m ³ /hr (ft ³ /hr)	15.6 (551)	6.8 (239)

// Cooling - Radiator System

	NG and LPG
Ambient Capacity of Radiator: °C (°F)	50 (122)
Max. 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)	123 (32.5)
Heat Rejection to Coolant: kW (BTUM)	78.2 (4,448)
Heat Radiated to Ambient: kW (BTUM)	19.1 (1,086)
Fan Power: kW (hp)	2.8 (3.8)

// Air Requirements

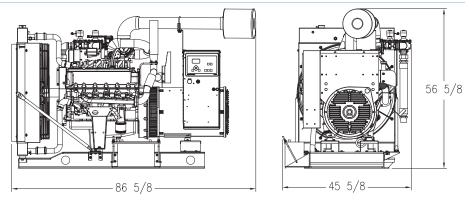
	NG and LPG
Aspirating: *m ³ /min (SCFM)	4.54 (160.5)
Air Flow Required for Rad.	
Cooled Unit: *m ³ /min (SCFM)	303.4 (10,715)
Remote Cooled Applications;	
Air Flow Required for Dissipation	
of Radiated Generator Set Heat For a	
Max. of 25 °F Rise: *m ³ /min (SCFM)	103 (3,369)

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

// Exhaust System

	NG and LPG
Gas Temp. (Stack): °C (°F)	660 (1,220)
Gas Volume at Stack	
Temp: m³/min (CFM)	15.3 (539)
Max. Allowable	
Back Pressure: kPa (in. H ₂ 0)	4.98 (20)

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 (LP)
Level 0: Open Power Unit dB(A)	75.5	76.1

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	CO
Natural Gas	7.53	30.49
Liquid Propane	7.65	47.95

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

- // 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:

Altitude: Consult your local MTU Onsite Energy Power Generation Distributor for altitude derations. Temperature: Consult your local MTU Onsite Energy Power Generation Distributor for temperature derations. © MTU Onsite Energy. Subject to alteration due to technological advances. OE 23 679 (72 3E) 2018-02

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

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