GAS ENGINE-GENERATOR SET 80-GC6NLT1

80 ekW / 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	1.0	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60	60
Natural Gas						
Ratings: Amps	313	313	278	241	120	96
Natural Gas						
Ratings: kW/kVA	75/75	75/75	80/100	80/100	80/100	80/100
LP Gas						
Ratings: Amps	321	321	278	241	120	96
LP Gas						
Ratings: kW/kVA	77/77	77/77	80/100	80/100	80/100	80/100
skVA@30%						
Voltage Dip	157	310	177	177	237	237
Generator Model*	363CSL1607	363CSL1617	362CSL1604	362CSL1604	362CSL1604	362PSL1635
Temp Rise	130°C/27°C	125°C/40°C	130°C/27°C	130°C/27°C	130°C/27°C	125°C/40°C
Connection	12 LEAD ZIG-ZAG	4 LEAD	12 LEAD LOW WYE	12 LEAD HI DELTA	12 LEAD HI WYE	4 LEAD WYE

^{*} The Generator Model Number identified in the table is for standard C Series Configuration. Consult the factory for alternate configuration.

FACTS

- // Engine-Generator Set Tested to ISO 8528-5 for Transient Response
- // UL2200, CSA Listing Offered
- // Accepts Rated Load in One Step Per NFPA 110, Level 1
- // All engine-generator sets are prototype and factory tested
- // MTU Onsite Energy is a single source supplier
- // Global Product Support
- // 2 Year Standard Warranty
- // Custom Design for Any Application
- // 8.1 L Engine
 - 8.1 Liter Displacement
 - 4-Cycle
- // Integral Vibration Isolators

- // 3-Way Catalyst
- // Complete Range of Accessories
- // Permanent Magnet Generator (PMG) Optional
 - Brushless, Rotating Field
 - 300% Short Circuit Capability
 - 2/3 Pitch Windings
- // Digital Control Panel(s)
 - UL Recognized, c Sus, NFPA 110
 - Complete System Metering
 - LCD Display
- // Cooling System
 - Integral Set-Mounted
 - Engine Driven Fan

^{**} UL2200 Offered

// Engine

Air Cleaners
Oil Pump
Full Flow Oil Filter
Jacket Water Pump
Thermostat
Exhaust Manifold - Dry
Blower Fan & Fan Drive
Radiator - Unit Mounted
Electric Starting Motor - 12V
Governor - Electric Isochronous
Base - Formed Steel
SAE Flywheel & Bell Housing
Charging Alternator - 12V
Battery Box & Cables
Flexible Fuel Connectors
Flexible Exhaust Connection
EPA Certified Engine

// Generator

// 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 our RDP-110 Remote Annunciator
16 Programmable Contact Inputs
7 Contact Outputs
UL Recognized, c Lus, CE Approved
Event Recording
IP 54 Front Panel Rating with Integrated Gasket
NFPA110 Level Compatible

APPLICATION DATA

// Engine

GM
8.1L
4-Cycle
8-V
496 (8.1)
4.25 (10.8)
4.37 (11.1)
9.1:1
1,800
Bosch
164.4 (122.6)
±1%
60 Hz
Dry

// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	2 (7.6)
Engine Jacket Water Capacity: gal (lit)	3.6 (13.6)
System Coolant Capacity: gal (lit)	8.4 (31.8)

// Electrical

Electric Volts DC	12	
Cold Cranking Amps Under 0°F (-17.8°C)	600	

// Fuel Inlet

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

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

	NG	LPG
At 100% of Power Rating: ft ³ /hr (m ³ /hr)	900 (25.5)	398 (11.3)
At 75% of Power Rating: ft ³ /hr (m ³ /hr)	667 (18.9)	295 (8.4)
At 50% of Power Rating: ft ³ /hr (m ³ /hr)	448 (12.7)	198 (5.6)

// Cooling - Radiator System

Ambient Capacity of Radiator: °F (°C)	122 (50)
Max. Restriction of Cooling Air, Intake,	
and Discharge Side of Rad.: in. H ₂ 0 (kPa)	0.5 (0.12)
Water Pump Capacity: gpm (lit/min)	37 (140.1)
Heat Rejection to Coolant: BTUM (kW)	4,141 (72.8)
Heat Radiated to Ambient: BTUM (kW)	1,305 (23)

// Air Requirements

Aspirating: *SCFM (m³/min)	258.3 (7.3)	
Air Flow Required for Rad.		
Cooled Unit: *SCFM (m³/min)	10,030 (284)	
Air Flow Required for Heat		
Exchanger/Remote Rad. based		
on 25°F Rise: *SCFM (m³/min)	2,944 (83.4)	

^{*} Air density = $0.0739 \text{ lbm/ft}^3 (1.184 \text{ kg/m}^3)$

// Exhaust System

Gas Temp. (Stack): °F (°C)	1,300 (704.4)
Gas Volume at Stack	
Temp: CFM (m³/min)	834 (23.6)
Maximum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	40 (10)
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WEIGHTS AND DIMENSIONS

Drawing above for illustration purposes only, based on standard open power 480 volt generator. Lengths may vary with other voltages. Do not use for installation design.



Dimensions (LxWxH)

78 x 34 x 60.75 in (1,981 x 864 x 1,543 mm)

Weight (dry)

2,150 lb (976 kg)

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	Standby No Load
OPU (dBA)	C/F	C/F
WPE - No Sound Attenuation (dBA)	C/F	C/F
CQE (dBA)	C/F	C/F

EMISSIONS DATA

Fuel Type	THC + NO _x	CO
Natural Gas	0.23	0.31
Liquid Propane	0.134	0.79

Measurements for sound data are taken at 23 ft (7m).

All units are in g/hp-hr.
Engine meets 40 CFR Part 60/1048 specifications.

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:

Altitude: 3% per 1,000 ft (305 m) above 328 ft (100 m). **Temperature**: 1% per 10°F (5.5°C) above 77°F (25°C).

MTU Onsite Energy. Subject to alteration due to technological advances. 2009-05

Materials and specifications subject to change without notice.