GAS ENGINE-GENERATOR SET 40-GC6NLT1

40 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	146	146	139	120	60	48
Natural Gas						
Ratings: kW/kVA	35/35	35/35	40/50	40/50	40/50	40/50
LP Gas						
Ratings: Amps	167	167	139	120	60	48
LP Gas						
Ratings: kW/kVA	40/40	40/40	40/50	40/50	40/50	40/50
skVA@30%						
Voltage Dip	128	102	93	93	133	92
Generator Model*	362CSL1604	284CSL1550	284CSL1542	284CSL1542	284CSL1542	361PSL1632
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
- // 4.3 L Engine
 - 4.3 Liter Displacement
 - 4-Cycle
- // Integral Vibration Isolators

- // 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

STANDARD EQUIPMENT

// Engine

Air Cleaner
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
Remote Communications to our RDF-110 Remote Affidicator
16 Programmable Contact Inputs
16 Programmable Contact Inputs
16 Programmable Contact Inputs 7 Contact Outputs
16 Programmable Contact Inputs 7 Contact Outputs UL Recognized, c Wus, CE Approved
16 Programmable Contact Inputs 7 Contact Outputs UL Recognized, c Wus, CE Approved Event Recording

APPLICATION DATA

// Engine

Manufacturer	GM
Model	4.3L
Туре	4-Cycle
Arrangement	6-V
Displacement: Cu In (lit)	262 (4.3)
Bore: in (cm)	4 (10.2)
Stroke: in (cm)	3.5 (8.8)
Compression Ratio	9.4:1
Rated RPM	1,800
Engine Governor	Bosch
Max Power: Standby: bhp (kWm)	71.4 (53.3)
Speed Regulation	±1%
Frequency	60 Hz
Air Cleaner	Dry

// Liquid Capacity (Lubrication)

Total Oil System: gal (lit)	1.1 (4.2)
Engine Jacket Water Capacity: gal (lit)	1.9 (7.2)
System Coolant Capacity: gal (lit)	5.7 (21.6)

// Electrical

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

// Fuel Inlet

Fuel Supply Connection Size	3/4" 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)	489 (13.9)	216 (6.1)
At 75% of Power Rating: ft ³ /hr (m ³ /hr)	368 (10.4)	163 (4.6)
At 50% of Power Rating: ft ³ /hr (m ³ /hr)	256 (7.3)	113 (3.2)

// 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)	31 (117.3)
Heat Rejection to Coolant: BTUM (kW)	2,220 (39)
Heat Radiated to Ambient: BTUM (kW)	938 (16.5)

// Air Requirements

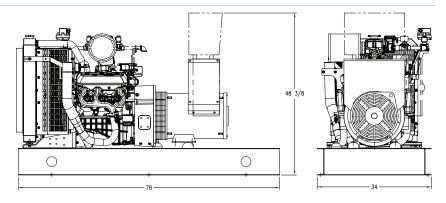
Aspirating: *SCFM (m³/min)	136.5 (3.9)	
Air Flow Required for Rad.		
Cooled Unit: *SCFM (m³/min)	7,464 (211.4)	
Air Flow Required for Heat		
Exchanger/Remote Rad. based		
on 25°F Rise: *SCFM (m³/min)	2,114 (59.9)	

^{*} 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)	440.8 (12.5)
Maximum Allowable	
Back Pressure: in. H ₂ 0 (kPa)	40 (10)

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 48.38 in (1,981 x 864 x 1,229 mm)

Weight (dry) 1,260 lb (572 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	9.42	29.43
Liquid Propane	10.95	42.91

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

All units are in g/hp-hr.
Engine meets 40 CFR Part 60/90 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).

Materials and specifications subject to change without notice.