

Gaseous Fuel

Ratings Range – 60 Hertz Operation

Liquid Propane: kW 56 - 74
kVA 56 - 93

Natural Gas: kW 56 - 68
kVA 56 - 85

Baldor generators are available in a variety of power ratings and installation styles to meet the energy needs of the smallest businesses and the largest manufacturing facilities. All generator sets are designed to meet the specifications to ensure the fastest startup and dependable long-term operation. Rely on Baldor generators to provide the clean, quiet and environmentally friendly electrical power when you need it most. Emergency backup, standby, peak shaving or for any of your day or night electrical power needs, you can count on a dependable Baldor generator to provide the peace of mind and security you desire.

Standby Power Features

- ✓ Heavy-duty industrial gaseous fuel engine that meets the latest EPA emissions levels
- ✓ Brushless synchronous alternators with dynamic balancing and four pole construction
- ✓ Fully featured microprocessor based controller that's easy to use and field programmable for customized installations
- ✓ Generator sets are prototype tested and production tested to ensure easy startup
- ✓ Gen-set accepts rated load in one step
- ✓ Heavy duty construction that's designed for use in standby applications
- ✓ Manufactured in a dedicated and secure ISO-9001 certified facility
- ✓ Generator sets are backed by a world wide network of parts and service centers
- ✓ Optional agency approvals available including UL2200 and NFPA110
- ✓ Optional environmental enclosures available including weather resistant, sound attenuated, containerized, and walk-in models
- ✓ Full range of genset accessories and factory installed options available

Genset Ratings

Genset Model Number	Alternator	Voltage L-L / L-N	Phase	Hertz	150°C Rise Alternator Standby Rating – LP Fuel		150°C Rise Alternator Standby Rating – Natural Gas	
					kW / kVA	Amps	kW / kVA	Amps
IGLC75-2G	UCI244F-311	208 / 120	3	60	71 / 89	247	67 / 84	233
		220 / 127	3	60	73 / 91	240	67 / 84	220
		(1) 240 / 120	3	60	73 / 91	220	68 / 85	205
		(1) 240 / 120	1	60	56 / 56	233	56 / 56	233
		240 / 139	3	60	73 / 91	220	67 / 84	202
		380 / 220	3	60	65 / 81	124	65 / 81	124
		416 / 240	3	60	71 / 89	123	67 / 84	116
		440 / 254	3	60	73 / 91	120	67 / 84	110
		480 / 277	3	60	73 / 91	110	68 / 85	102
	UCI224F-17	600 / 347	3	60	73 / 91	88	68 / 85	82
	UCI224G-311	208 / 120	3	60	73 / 91	254	67 / 84	233
		220 / 127	3	60	73 / 91	240	68 / 85	223
		(1) 240 / 120	3	60	74 / 93	223	68 / 85	205
		(1) 240 / 120	1	60	62 / 62	258	62 / 62	258
		240 / 139	3	60	73 / 91	220	68 / 85	205
		380 / 220	3	60	72 / 90	137	67 / 84	127
		416 / 240	3	60	73 / 91	127	67 / 84	116
		440 / 254	3	60	73 / 91	120	68 / 85	112
		480 / 277	3	60	74 / 93	111	68 / 85	102
		UCI224G-06	(1) 240 / 120	1	60	72 / 72	300	66 / 66

NOTES: (1) Alternator connections have two circuits available for low voltage.

Available current in each low voltage circuit is equal to high voltage current listed in table.

For ratings and voltages not listed above refer to the Genset Selector.

Standby ratings do not have an overload capability but can be used for the duration of the utility failure per ISO-3046, DIN6271 and BS5514.

Baldor reserves the right to implement specifications or design changes without notice.

Engine Application Data

Engine Specifications

Manufacturer	General Motors
Engine Model #	5.7L
Engine Type	4 Cycle, 8 Cylinder
Induction System	Naturally Aspirated
Displacement, L (in ³)	5.7 (350)
EPA Emissions Certification	40 CFR Part 60/90
HP at Rated Speed BHP (kW _m) NG	104.7 (78.1)
HP at Rated Speed BHP (kW _m) Propane	113.2 (84.4)
Rated RPM	1800
Bore and Stroke in (mm)	4.00X3.48 (86x105)
Compression Ratio	9.1:1
Air Filter Type	Dry
Governor Type / Model	Electronic
Governor Manufacturer	EControls
Freq Reg NL to FL	Isochronous
Freq Reg Steady State	+/-0.5%

Engine Lubrication System

Oil Pan Capacity gal (L)	1.3 (4.7)
Oil Capacity w/Filter gal (L)	1.6 (6.2)
Oil Filter Quantity	1
Oil Filter Type	Cartridge
Recommended Oil	15W-40
Oil Press psi (kPa)	43 (296)

Engine Cooling System

Genset Max Ambient Temp °F (°C)	122 (50)
Engine Coolant Cap qt (L)	7.2 (6.8)
Engine + Radiator System Cap qt (L)	22 (20.8)
Water Pump Type	Centrifugal
Coolant Flow gpm (Lpm)	31 (117.3)
Heat Rejected to Cooling Water @ Rated kW; Btu/min (kW)	3120 (54.9)
Max Restriction of Cooling Air in H ₂ O (kPa)	0.5 (0.124)

Engine Exhaust System

Exhaust Manifold Type	Dry
Exhaust Flow @ Rated kW cfm (cmm)	580 (16.4)
Exhaust Temp (dry manifold) °F (°C)	1200 (648.9)
Min Back Pressure in H ₂ O (kPa)	16 (4.0)
Max Back Pressure in H ₂ O (kPa)	40.8 (10.2)
Exhaust Outlet Diameter in (mm)	3 (76.2)
Exhaust Outlet Type	O.D. Tube
Exhaust Catalyst	None Required

Engine Electrical System

Charging Alternator Volts dc	12
Charging Alternator Amps	70
Grounding Polarity	Negative
Starter Motor Volts dc	12
Battery Recommendations	
Battery Volts dc	12
Min Cold Cranking Amps	750
Quantity Required	1

Ventilation Requirements

Cooling Airflow, scfm (cmm)	6000 (170)
Combustion Airflow, cfm (cmm)	185 (5.2)
Heat Rejected to Ambient	
From Engine, Btu/min (kW)	1763 (31)
From Alternator, Btu/min (kW)	398 (7)
Recommended Free Area Intake	
Louver Size, ft ² (m ²)	13.0 (1.21)

Engine Fuel System

Recommended Fuel	
Natural Gas min HHV (Btu/ft ³)	1015
Propane Vapor min HHV (Btu/ft ³)	2650
Fuel Supply Pressure in-H ₂ O (kPa)	7-11 (1.7-2.7)
Fuel Line At Engine	
Supply Line, npt	1-1/4

NG Fuel Consumption – Standby Rating

100% Load cfph (m ³ ph)	790 (22.4)
75% Load cfph (m ³ ph)	685 (19.4)
50% Load cfph (m ³ ph)	520 (14.7)
25% Load cfph (m ³ ph)	350 (9.9)

Propane Fuel Consumption – Standby Rating

100% Load cfph (m ³ ph)	330 (9.3)
75% Load cfph (m ³ ph)	250 (7.1)
50% Load cfph (m ³ ph)	190 (5.4)
25% Load cfph (m ³ ph)	135 (3.8)

Engine Output Deratings - Standby

Rated Temp	77°F
Rated Altitude	325 ft
Max Altitude	10,000 ft
Temperature Derate	-1% / 8°F
Altitude Derate	-3% / 1000 ft

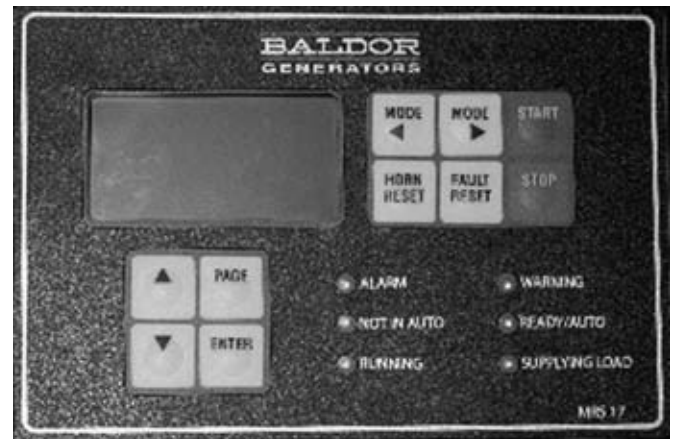
Alternator Specifications

Alternator Type	4-Pole, Rotating Field	Automatic Voltage Regulator	
Exciter Type	Brushless	Wound Field	SX460
Excitation System		PMG	MX341, MX321
Shunt Connection	Standard	Voltage Regulation	No Load to Full Load
PMG	Optional	Std Regulator	+/- 1.5%
Insulation	per NEMA MG1	PMG Regulator	+/- 1%, +/- 0.5%
Material	Class H	Load Acceptance	100% of Rating, One Step
Standby Temp Rise	150°C		
Lead Connection	12 Lead, Reconnectable	Subtransient Reactance	
Stator Pitch	2/3	480V, Per Unit	12%
Amortisseur Winding	Full	TIF (1960 Weighting)	<50
Bearing	Single, Double Shielded	Line Harmonics	5% Maximum
Drive Coupling	Flexible Disk	Motor Starting kVA	30% Max Voltage Dip
Unbalanced Load	20% of Standby Rating	Alt @ 480V SkVA	UCI224F-311 230 kVA
		Alt @ 480V SkVA	UCI244G-311 270 kVA

Genset Controller Specifications

Baldor IntelliLite NT Features

- Large back-lit graphical LCD Display
 - 64x128 pixel resolution
- 6 LED Genset Status Indicators
 - Alarm Red LED
 - Not In Auto Red LED
 - Warning Yellow LED
 - Running Green LED
 - Ready / Auto Green LED
 - Supplying Load Green LED
- Sealed Membrane Panel to IP65
- Push Buttons for Simple Control
 - Start, Stop, Fault Reset, Horn Reset, Mode, Page, and Enter Keys
- Display Metering and Protection
 - Oil Pressure Warning / Shutdown
 - High / Low Coolant Temperature Warning
 - High Coolant Temperature Shutdown
 - Low Fuel Level Warning / Shutdown
 - Over Speed Protection
 - Battery Voltage Over / Under Warning
 - Running Hour Meter
 - Generator Under / Over Volts Warn / Shutdown
 - Generator Under / Over Freq Warn / Shutdown
 - Generator Over Current Shutdown
 - Generator Output Metering for V1-V3, I1-I3, Hz, kW, kWh, kVAh, kVAh



Additional Standard Genset Features

- ✓ Formed Steel Sub-Base
- ✓ Integral Vibration Isolation
- ✓ Sub-Base Lifting Eyes
- ✓ Unit Mounted Radiator
- ✓ Engine Mounted Fan
- ✓ Radiator Fan Guard
- ✓ Battery Charging Alternator
- ✓ Battery Rack and Cables
- ✓ Unit Mounted Control Panel
- ✓ Spin-On Oil Filter
- ✓ Enamel Finish
- ✓ One Set - Operation / Maintenance Manual
- ✓ Factory Tested Prior to Shipment
- ✓ Limited Warranty

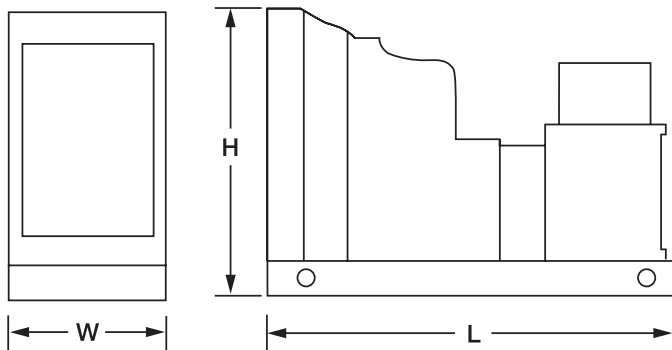
Optional Agency Approvals

- UL2200 (Review Option Availability)
- NFPA110 (Request Remote Annunciator)

Weight and Dimensions (Open Unit)

Weight – Wet lb(kg)	2103 (954)
Overall Dimensions	Length x Width x Height
inches	90 x 42 x 40
mm	2286 x 1067 x 1016

Note: Drawing is provided for reference only.
Use engineering outline for installation planning.



Available Accessories and Options

Open Unit

- Industrial Silencer
- Residential Silencer
- Critical Silencer
- Hospital Grade Silencer
- Exhaust Flex Pipe
- Rain Cap
- Radiator Duct Flange

Enclosed Units

- Weather Resistant Enclosure
- Sound Attenuated w/Internal Critical Silencer
- ISO Container
- Walk-In Enclosure

Alternator Accessories

- PMG Exciter and AVR Upgrade
- Alternator Space Heater
- Exciter Field Circuit Breaker
- Alternator Drip Shield

Genset Accessories

- Voltage Adjust Potentiometer
- Starting Battery
- Battery Charger Auto/Float
- Auto/ Float Equalize Timer Manual Automatic
- Battery Heater
- Engine Coolant Heater
- Oil & Coolant Drain Valves (Engine/Radiator)
- Oil & Coolant Drain Extended to Base

Main Output Breaker

- Wall Mount
- Unit Mount

Transfer Switch

- Manual
- Automatic

Control Panel

- Remote Annunciator
- Remote Communications
- Remote E-Stop

Fuel System

- Fuel Strainer
- Dual Fuel Automatic Changeover

Vibration Isolators

- Elastomer Isolator
- Standard Spring
- Seismic Spring

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