

Diesel

Ratings Range - 60 Hertz Operation

Standby: kW 665 - 800

kVA 831 - 1000

Prime: kW 640 - 720

kVA 875 - 900

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, prime power, 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 and Prime Power Features

- Heavy-duty industrial diesel 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 prime or 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	Alternator	Voltage	Voltage L-N/L-L Phase	Hertz	150°C Rise Standby Rating		125°C Rise Prime Rating	
Model Number		L-N/L-L			kW/kVA	Amps	kW/kVA	Amps
IDLC800-2M		120/208	3	60	730/913	2536	700/875	2432
	HCl634G-311	127/220	3	60	775/969	2545	720/900	2365
		(1) 120/240	3	60	730/913	2198	700/875	2107
		139/240	3	60	800/1000	2408	720/900	2168
		220/380	3	60	665/831	1264	640/800	1217
		240/416	3	60	730/913	1268	700/875	1216
		254/440	3	60	775/969	1273	720/900	1182
		277/480	3	60	800/1000	1204	720/900	1084
	HCI634G-07	347/600	3	60	800/1000	963	720/900	867
		120/208	3	60	800/1000	2779	720/900	2501
		127/220	3	60	800/1000	2627	720/900	2365
		(1) 120/240	3	60	800/1000	2408	720/900	2168
	HCl634H-311	139/240	3	60	800/1000	2408	720/900	2168
		220/380	3	60	795/994	1512	720/900	1369
		240/416	3	60	800/1000	1390	720/900	1251
		254/440	3	60	800/1000	1314	720/900	1182
		277/480	3	60	800/1000	1204	720/900	1084

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. $\label{eq:control}$

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.

Prime (Unlimited Running Time) ratings are continuous per DIN 6271 and ISO-3046 with 10% overload capacity.

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

Engine Application Data

For all and Out and Constitution of		Foreign Florida at Contain	
Engine Specifications	NATION DATE OF	Engine Electrical System	0.4
Manufacturer	Mitsubishi	Charging Alternator Volts dc	24
Engine Model #	S12A2-Y2PTAW-2	Charging Alternator Amps	25
Engine Type	4 Cycle, 12 Cylinder	Grounding Polarity	Negative
Induction System	Turbocharged,	Starter Motor Volts dc	24
5	Inter Cooler	Battery Recommendations	0.4
Displacement, L (in³)	33.9 (2071)	Battery Volts dc	24
EPA Emissions Level	Tier 2	Min Cold Cranking Amps	1100
HP at Rated Speed BHP (kW _m)	1207 (900)	Quantity Required	2
Rated RPM	1800		
Bore and Stroke in(mm)	5.91 x 6.30 (150 x 160)	Ventilation Requirements	
Compression Ratio	15.3:1	Cooling Airflow scfm(cmm)	40042 (1134)
Air Filter Type	Dry	Combustion Airflow cfm(cmm)	3107 (88)
Governor Type/Model	Proact2	Heat Rejected to Ambient	
Governor Manufacturer	Woodward	From Engine Btu/min(kW)	4375 (77)
Freq Reg NL to FL	Isochronous	From Alternator Btu/min(kW)	2275 (40)
Freq Reg Steady State	+/- 0.25%	Recommended Free Area Intake	
		Louver Size ft²(m²)	87.0 (8.09)
Engine Lubrication System			
Oil Pan Capacity gal(L)	26.4 (100.0)	Engine Fuel System	
Oil Pan w/Filter	31.7 (120.0)	Recommended Fuel	#2 Diesel
Oil Filter Quantity	4	Fuel Line at Engine	
Oil Filter Type	Cartridge	Supply Line Min ID in(mm)	0.75 (19)
Oil Cooler	Water Cooled	Return Line Min ID in(mm)	0.75 (19)
Recommended Oil	15W-40	Fuel Pump Type	Engine Driven
Oil Press psi(kPa)	57 (393)	Fuel Pump Max Lift ft (m)	3 (1)
		Max Flow to Pump gph(Lph)	148 (560.2)
Engine Cooling System		Fuel Filter	
Genset Max Ambient Temp °F(°C)	113 (45)	Secondary Filter	2 μm
Engine Coolant Cap qt(L)	105.7 (100.0)	Secondary Water Separator	Not Included
Engine + Radiator System Cap qt(L)	402.0 (380.4)	Primary Filter	Optional
Water Pump Type	Centrifugal	Primary Water Separator	Optional
Coolant Flow gpm (Lpm)	291 (1101.4)		
Charge Cooler Flow gpm (Lpm)	124 (469.3)	Fuel Consumption – Standby Ra	_
Heat Rejected to Cooling Water		100% Load gph(Lph)	65.2 (246.8)
@ Rated kW; Btu/min (kW)	20418 (358.9)	75% Load gph(Lph)	46.8 (177.1)
Heat Rejected to Charge Cooler		50% Load gph(Lph)	32.2 (121.9)
@ Rated kW; Btu/min (kW)	16043 (282.0)	25% Load gph(Lph)	19.3 (73.1)
Heat Rejected to Ambient Air			
@ Rated kW; Btu/min (kW)	4375 (76.9)	Fuel Consumption – Prime Ratin	-
Max Restriction of Cooling Air		100% Load gph(Lph)	59.3 (224.5)
inH ₂ O(kPa)	0.5 (0.124)	75% Load gph(Lph)	42.6 (161.2)
		50% Load gph(Lph)	29.3 (110.9)
Engine Exhaust System		25% Load gph(Lph)	17.6 (66.6)
Exhaust Manifold Type	Dry		
Exhaust Flow @ Rated kW cfm(cmm)	8192 (232)	Engine Output Deratings - Star	ndby
Exhaust Temp (dry manifold) °F(°C)	953 (497)	Rated Temp	40°C
Max Back Pressure inH ₂ O(kPa)	23.6 (5.9)	Rated Altitude	1500 m
Exhaust Outlet Diameter in(mm)	8.35 (212)	Max Altitude	5000 m
Exhaust Outlet Type	JIS200A (approx 8")	Temperature Derate	-5% / 10°C
		Altitude Devate	10/ /100

Altitude Derate

-1% / 100 m



Alternator Specifications

Alternator Type 4-Pole, Rotating Field

Exciter Type Brushless Excitation System PMG

Insulation per NEMA MG1

Material Class H
Standby Temp Rise 150°C
Prime Temp Rise 125°C

Lead Connection 12 Lead, Reconnectable

Stator Pitch 2/3 Amortisseur Winding Full

Bearing Single, Double Shielded

Drive Coupling Flexible Disk

Unbalanced Load 20% of Standby Rating

Automatic Voltage Regulator

PMG Std MX321

Voltage Regulation No Load to Full Load

PMG Regulator +/- 0.5%

Load Acceptance 100% of Rating,

One Step

Subtransient Reactance

480V, Per Unit 18% TIF (1960 Weighting) <50

Line Harmonics 5% Maximum

Motor Starting kVA 30% Max Voltage Dip
Alt @ 480V SkVA HCI634G-311 - 2350
Alt @ 480V SkVA HCI634H-311 - 2680

Genset Controller Specifications

Baldor InteliGen NT Features

Large back-lit graphical LCD Display 64x128 pixel resolution

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 Coolant Level Shutdown

Low Fuel Level Warning / Shutdown

Over Speed Protection

Battery Voltage Under/Over 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, kVAr, kVAh

User Configurable Inputs and Outputs

Up to 500 Event Based History Records

Integrated PLC Programming Functions

Interface to Remote Display or

Remote Annunciator

Controller capable of Both Single or Multiple

Gensets Operating in Standby or

Parallel Modes



NFPA110 Compliance

An optional Remote Annunciator is available to meet NFPA110 applications

Remote Annunciator Features – RA15 15 LED Indicators with Function Labels Horn Reset and Lamp Test keys

CAN Bus Connection for up to 600 Feet





Additional Standard Genset Features

- ✓ Structural Steel Sub-Base
- ✓ Sub-Base Lifting Eyes
- ✓ Unit Mounted Radiator
- ✓ Engine Mounted Fan
- ✓ Fan Guard
- ✓ Battery Charging Alternator
- ✔ Battery Rack and Cables
- ✓ Unit Mounted Control Panel
- ✓ Spin-On Filters for Oil and Fuel
- ✓ 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)

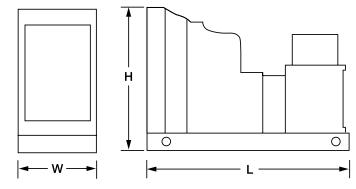
Weight and Dimensions (Open Unit)

Weight – Wet lb(kg) 17410 (7897)

Overall Dimensions Length x Width x Height inches 168 x 82 x 93

mm 4267 x 2083 x 2362

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 □ Super Critical Silencer								
☐ Exhaust Flex Pipe ☐ Rain Cap								
Radiator Duct Flange								
Enclosed Units								
Weather Resistant Enclosure								
☐ Sound Attenuated w/Internal Critical Silencer	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	Alternator Drip Shield							
Genset Accessories								
☐ Voltage Adjust Potentiometer	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	☐ Oil & Coolant Drain Extended to Base							
Main Output Breaker ☐ Wall Mount ☐ Unit Mount								
Transfer Switch								
Control Panel								
☐ Remote Annunciator								
Remote Communications								
☐ Remote E-Stop								
Fuel System and Sub-Base Fuel Tank								
Sub-Base Tank ☐ Single Wall ☐ Double Wall								
☐ UL142 Double Wall with Containment								
Tank Run Time @ 100% Load								

□ 12-16 Hours □ 24-36 Hours

Location Under Tank Between Tank

■ Spring for Seismic Zone 4

☐ Elastomer Isolator ☐ Pad Isolator

☐ Primary Fuel / Water Separator

☐ Flex Fuel Line

Vibration Isolators

Standard Spring

