

Diesel

Ratings Range - 60 Hertz Operation

Standby: kW 96 - 150

kVA 96 - 188

Prime: kW 84 - 140

kVA 84 - 175

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 Model Number	Alternator	Voltage L-N / L-L	Phase	Hertz	150°C Rise Standby Rating		125°C Rise Prime Rating	
					kW / kVA	Amps	kW / kVA	Amps
IDLC150-3J	UCI274E-311	120 / 208	3	60	136 / 170	472	128 / 160	445
		(1) 120 / 240	3	60	136 / 170	409	128 / 160	385
		(1) 120 / 240	1	60	96 / 96	400	84 / 84	350
		139 / 240	3	60	150 / 188	452	140 / 175	421
		220 / 380	3	60	124 / 155	236	112 / 140	213
		277 / 480	3	60	150 / 188	226	140 / 175	211
	UCI274E-17	347 / 600	3	60	150 / 188	181	140 / 175	169
	UCI274F-311	120 / 208	3	60	150 / 188	521	140 / 175	486
		(1) 120 / 240	3	60	150 / 188	452	140 / 175	421
		(1) 120 / 240	1	60	108 / 108	450	97 / 97	404
		139 / 240	3	60	150 / 188	452	140 / 175	421
		220 / 380	3	60	137 / 171	260	132 / 165	251
		277 / 480	3	60	150 / 188	226	140 / 175	211
	UCI274F-17	347 / 600	3	60	150 / 188	181	140 / 175	169
	UCI274F-06	(1) 120 / 240	1	60	150 / 150	625	135 / 135	563

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.

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

Engine Considerations		Frainc Floatrical Cretam		
Engine Specifications	L.L. B.	Engine Electrical System	40	
Manufacturer	John Deere	Charging Alternator Volts dc	12	
Engine Model #	6068HF285	Charging Alternator Amps	65	
Engine Type	4 Cycle, 6 Cylinder	Grounding Polarity	Negative	
Induction System	Turbo, Charge Air Cooled	Starter Motor Volts dc	12	
Displacement, L (in ³)	6.8 (415)	Battery Recommendations	40	
EPA Emissions Level	Tier 3	Battery Volts dc	12	
HP at Rated Speed BHP (kW _m)	237 (177)	Min Cold Cranking Amps	800	
Rated RPM	1800	Quantity Required	1	
Bore and Stroke in(mm)	4.19x5.00 (106x127)			
Compression Ratio	19.0:1	Ventilation Requirements	10110 (007)	
Air Filter Type	Dry	Cooling Airflow scfm(cmm)	10142 (287)	
Governor Type/Model	JDEC Electronic	Combustion Airflow cfm(cmm)	480 (14)	
Governor Manufacturer	John Deere	Heat Rejected to Ambient	1000 (05)	
Freq Reg NL to FL	Isochronous	From Engine Btu/min(kW)	1990 (35)	
Freq Reg Steady State	±0.25%	From Alternator Btu/min(kW)	1024 (18)	
		Recommended Free Area Intake	00 (0 0 4)	
Engine Lubrication System	0.0 (00.5)	Louver Size ft ² (m ²)	22 (2.04)	
Oil Pan Capacity gal(L)	8.6 (32.5)	End of End Only		
Oil Pan w/Filter	8.8 (33.4)	Engine Fuel System	#0 D: !	
Oil Filter Quantity	1	Recommended Fuel	#2 Diesel	
Oil Filter Type	Cartridge	Fuel Line at Engine	0.44(44)	
Oil Cooler	Water Cooled	Supply Line Min ID in(mm)	0.44 (11)	
Recommended Oil	15W-40	Return Line Min ID in(mm)	0.25 (6)	
Oil Press psi(kPa)	44 (300)	Fuel Pump Type	Engine Driven	
Forting Coulting County		Fuel Pump Max Lift ft (m)	6 (2)	
Engine Cooling System	100 (50)	Max Flow to Pump gph(Lph)	28.3 (107)	
Genset Max Ambient Temp °F(°C)	122 (50)	Fuel Filter	0	
Engine Coolant Cap qt(L)	13 (12.3)	Secondary Filter	2µm	
Engine + Radiator System Cap qt(L)	31 (29.3)	Secondary Water Separator	Included	
Water Pump Type	Centrifugal	Primary Filter	30µm	
Coolant Flow gpm (Lpm)	48 (180)	Primary Water Separator	Included	
Heat Rejected to Cooling Water	5334 (03 F)	Fuel Consumption Standby Bot	ina	
@ Rated kW; Btu/min (kW)	5324 (93.5)	Fuel Consumption - Standby Rat 100% Load gph(Lph)	11.8 (44.7)	
Heat Rejected to Charge Cooler	1821 (32)		, ,	
@ Rated kW; Btu/min (kW)	1621 (32)	75% Load gph(Lph)	9 (34.1)	
Max Restriction of Cooling Air	0.5 (0.124)	50% Load gph(Lph)	6.2 (23.5)	
in H₂O(kPa)	0.5 (0.124)	25% Load gph(Lph)	3.5 (13.2)	
Engine Exhaust System		Fuel Consumption - Prime Rating		
Exhaust Manifold Type	Dry	100% Load gph(Lph)	, 10.9 (41.3)	
Exhaust Flow @ Rated kW cfm(cmm)		75% Load gph(Lph)	8.5 (32.2)	
Exhaust Temp (dry manifold) °F(°C)	941 (505)	50% Load gph(Lph)	6.2 (23.5)	
Min Back Pressure inH ₂ O(kPa)	0 (0)	25% Load gph(Lph)	3.2 (12.1)	
Max Back Pressure inH ₂ O(kPa)	30 (7.5)	2070 Lodd gpii(Lpii)	0.2 (12.1)	
Exhaust Outlet Diameter in(mm)	4.0 (101.6)	Engine Output Paratings - Stan	dby	
Exhaust Outlet Type	O. D. Tube	Engine Output Deratings - Stan	_	
	J. J. 1000	Rated Temp Rated Altitude	77°F	
		Max Altitude	1,000 ft 10,000 ft	
		Temperature Derate	-1% / 20°F	

Altitude Derate

-1% / 2000 ft



Alternator Specifications

Alternator Type 4-Pole, Rotating Field

Exciter Type Brushless

Excitation System

Shunt Connection Standard **PMG** Optional

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

Genset Controller Specifications

Baldor InteliLite NT Features

Large back-lit graphical LCD Display 64x128 pixel resolution

6 LED Genset Status Indicators

Alarm Red LED Not In Auto Red LED Yellow LED Warning Green LED Running 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 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

Automatic Voltage Regulator

Wound Field SX460

PMG Opt MX341, Opt MX321

Voltage Regulation No Load to Full Load

+/- 1.5% Std Regulator

PMG Regulator +/- 1%, +/- 0.5% Load Acceptance 100% of Rating,

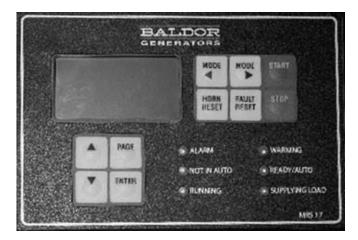
One Step

Subtransient Reactance

480V, Per Unit 14% TIF (1960 Weighting) < 50

5% Maximum Line Harmonics

Motor Starting kVA 30% Max Voltage Dip Alt @ 480V SkVA UCI274E-311 - 450 kVA Alt @ 480V SkVA UCI274F-311 - 520 kVA



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

- ✔ Formed Steel Sub-Base
- ✓ Integral Vibration Isolation
- ✓ Sub-Base Lifting Eyes
- ✓ Unit Mounted Radiator
- ✓ Engine Mounted Fan
- ✓ Radiator Core and Fan Guards
- ✓ 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

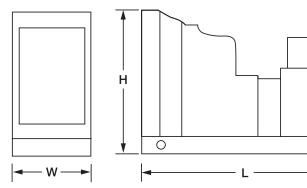
- ☐ UL2200 (Review Option Availability)
- ☐ NFPA110 (Request Remote Annunciator)

Weight and Dimensions (Open Unit)

Weight – Wet lb(kg) 3306 (1285)

Overall Dimensions Length x Width x Height inches 108 x 42 x 53 mm 2743 x 1067 x 1346

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							
I 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 Equalize Timer Manual Automatic							
□ Battery Heater							
☐ Engine Coolant Heater							
☐ Oil & Coolant Preater							
☐ 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							
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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							
☐ Flex Fuel Line							
☐ Primary Fuel / Water Separator							
Vibration Isolators							
Location ☐ Under Tank ☐ Between Tank							
□ Elastomer Isolator □ Pad Isolator							



■ Standard Spring

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☐ Spring for Seismic Zone 4