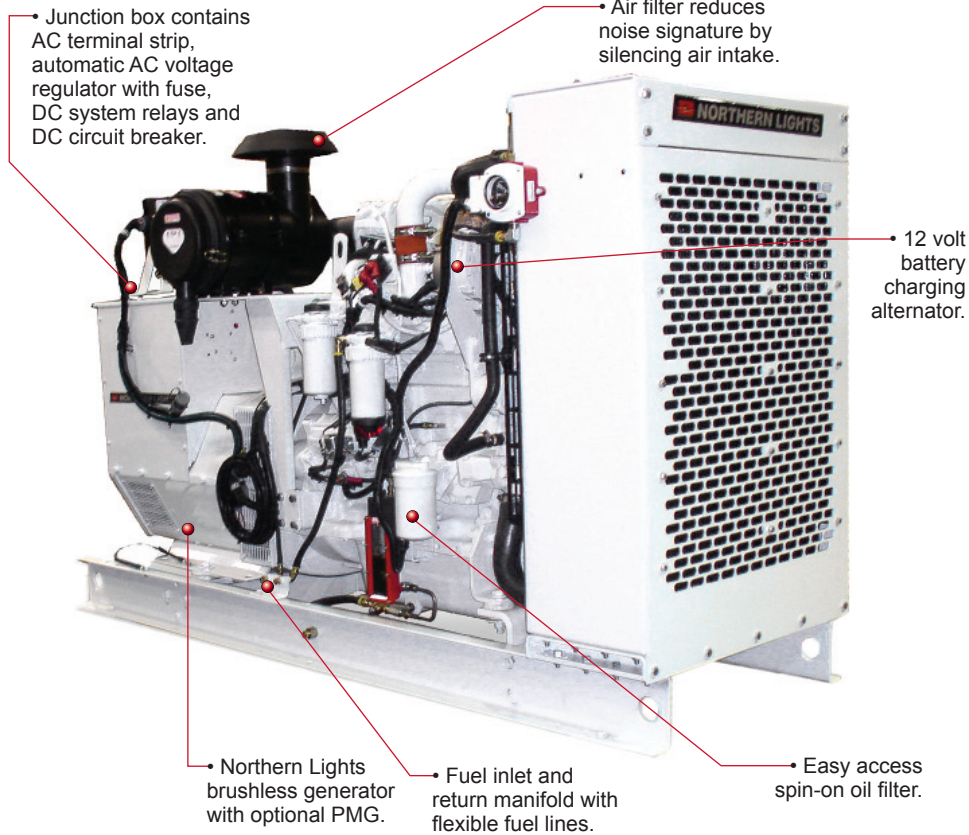


**75-110 kW**  
Prime Power

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**85-125 kW**  
Standby

## Service Side

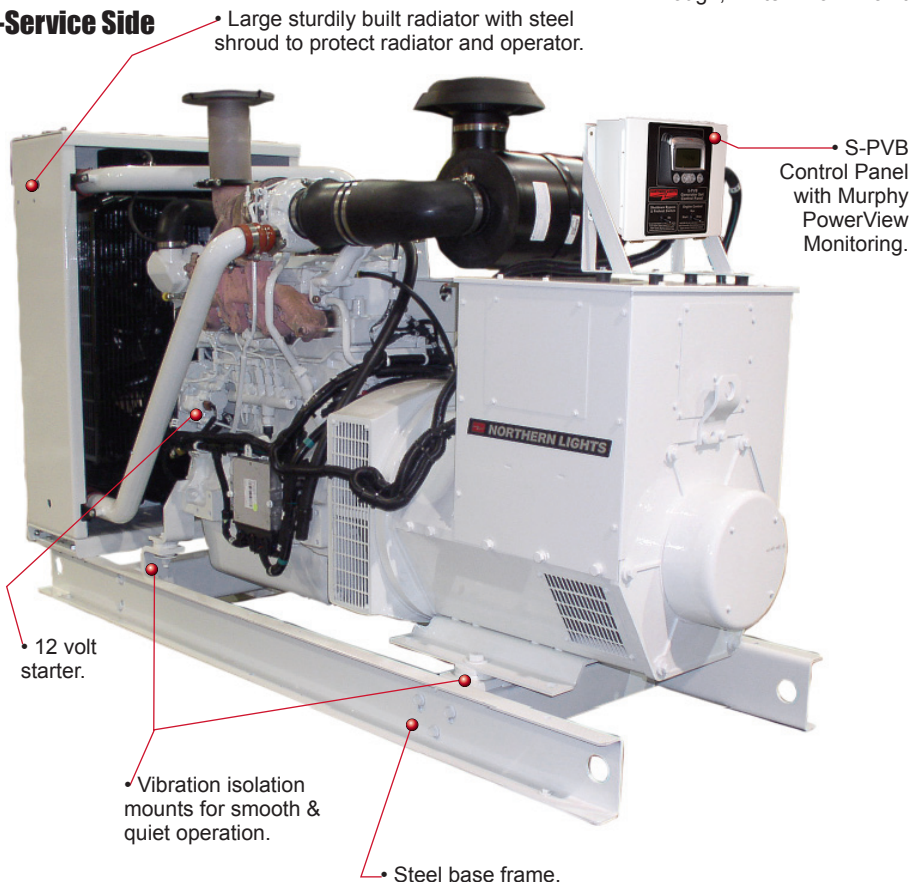


For five decades, Northern Lights has built reliable, durable and simple to use land-based generator sets. From the extremes of the Alaskan bush, to the deserts of the Middle East, Northern Lights Land Based Generator sets have been built to last.

The NL1064H Series feature a number of benefits that make them the most reliable, durable and simple to use machines in their power range. From 75-110kW of prime power - 85-125 kW standby - the NL1064H's are up to the most arduous of tasks.

A high-torque, low rpm industrial diesel engine is combined with a conservatively rated generator end and your choice of control panels. The NL1064H series feature the high-pressure common rail (HPCR) system for optimal fuel delivery and cleaner emissions.

## Non-Service Side



The Twin-counter rotating balance shafts dampen vibration for smoother operation. Liquid cooled and radiator equipped, the NL1064 Series is equipped with fan guard and a steel radiator shroud to promote safety and reliability. The NL1064H23 & NL1064H33's are designed to pick up 100% of the rated load with minimal voltage dip and a quick recovery time.

A guiding principal behind Northern Lights engineering is simplicity of design. Unnecessary belts and hoses have been engineered away. Most service points are grouped on a common side. Spin on oil and fuel filters make routine maintenance a breeze.

For base camps, homes or even off-grid power, Northern Lights NL1064H Series has a customizable solution that is right for you.

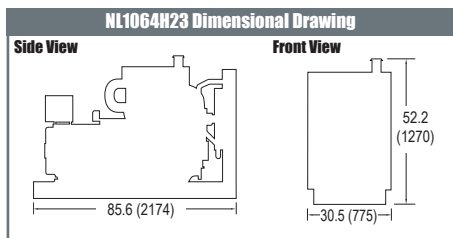
NL1064H43 Shown



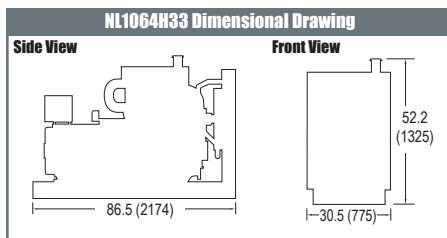
# NL1064H Series

# General Specifications and Dimensions

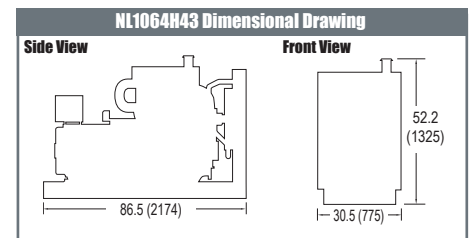
Application	NL1064H23	NL1064H33	NL1064H43
<b>Prime - 60 Hz, 1800 RPM</b>	<b>75 kW</b>	<b>90 kW</b>	<b>110 kW</b>
<b>Standby - 60 Hz, 1800 RPM</b>	<b>85 kW</b>	<b>100 kW</b>	<b>125 kW</b>
<b>John Deere L1064H Diesel Engine</b>			
Cylinders/Operating cycle	4 inline / 4 cycle	4 inline / 4 cycle	4 inline / 4 cycle
Aspiration	Turbo & Charge Air	Turbo & Charge Air	Turbo & Charge Air
Displacement - cid (liter)	276 (4.5)	276 (4.5)	276 (4.5)
Bore - inches (mm)	4.19 (106)	4.19 (106)	4.19 (106)
Stroke - inches (mm)	5.00 (127)	5.00 (127)	5.00 (127)
Flywheel housing size	SAE 3	SAE 3	SAE 3
HP @ 1800 RPM - Prime	121	144	179
HP @ 1800 RPM - Standby	133	158	197
<b>Cooling System</b>			
Engine coolant capacity - US gal (ltr)	2.25 (8.5)	2.25 (8.5)	2.4 (9)
Jacket water pump capacity - gpm (lpm)	41 (157)	48 (180)	63 (240)
Maximum coolant temperature - F(C)	235 (113)	235 (113)	235 (113)
Heat rejected to coolant, btu/min - Prime	2800	3200	4041
Heat rejected to coolant, btu/min - Standby	3096	3544	4480
<b>Exhaust</b>			
Exhaust gas flow, cfm(m <sup>3</sup> /m) - Prime	645 (18.3)	750(21.2)	833 (23.6)
Exhaust gas flow, cfm(m <sup>3</sup> /m) - Standby	679 (19.2)	805 (22.8)	938 (26.6)
Max exhaust gas temperature, F(C) - Prime	1024°(551)	1040°(560)	950°(510)
Max exhaust gas temperature, F(C) - Standby	1074° (579)	1076° (580)	941° (500)
Maximum allowable back pressure, in(mm)	30 (762) H <sub>2</sub> O	30 (762) H <sub>2</sub> O	30 (762) H <sub>2</sub> O
<b>Fuel System</b>			
Fuel Injection	High Pressure Common Rail	High Pressure Common Rail	High Pressure Common Rail
Approximate fuel consumption, US gal(ltr) - Prime	6.3 (23.8)	7.5 (28.3)	8.7 (32.9)
Approximate fuel consumption, US gal(ltr) - Standby	6.9 (26.1)	8.2 (31.0)	9.8 (37.0)
Minimum suction line size,NPT	3/8"	3/8"	3/8"
Minimum return line size, NPT	3/8"	3/8"	3/8"
Maximum transfer pump lift from pump in(mm)	39" (1500)	39" (1500)	39" (1500)
Maximum fuel flow to transfer pump GPH	16.5	19.7	23.5
<b>DC Electrical System</b>			
DC Starting voltage	12	12	12
Alternator charging capacity	75 AMPS	75 AMPS	75 AMPS
Minimum Battery capacity	800 CCA	800 CCA	800 CCA
Battery cable size	2/0	2/0	2/0
<b>AC Electrical System</b>			
Rated ambient air temperature	77°F	77°F	77°F
Maximum rated temperature rise - Prime	105°F / 40°C	105°F / 40°C	105°F / 40°C
Maximum rated temperature rise - Standby	105°F / 40°C	105°F / 40°C	105°F / 40°C
<b>Lubrication System</b>			
Oil pan capacity, US gal (ltr)	3.9 (14.7)	3.9 (14.7)	5.4 (20.5)
Oil pressure at rated speed, psi (kPa)	46 (320)	46 (320)	46 (320)
Oil pressure shutdown, psi (kPa)	15 (105)	15 (105)	15 (105)
<b>Dimensions and Weight</b>			
Length, inch (mm)	85.6 (2174)	86.5 (2174)	86.5 (2174)
Width, inch (mm)	30.5 (775)	30.5 (775)	30.5 (775)
Height, inch (mm)	52.2 (1325)	52.2 (1325)	52.2 (1325)
Approx. set dry weight, lbs (kg)	2800 (1270)	2900 (1315)	3016 (1368)



Overall Dimensions L x W x H: 85.6 x 30.5 x 52.2 in (2174 x 775 x 1270 mm)  
 Dimensions subject to change without notice. Not intended for installation.  
 Contact dealer or visit [www.northern-lights.com](http://www.northern-lights.com) for most current installation drawings.



Overall Dimensions L x W x H: 86.5 x 30.5 x 52.2 in (2174 x 775 x 1325 mm)  
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Overall Dimensions L x W x H: 86.5 x 30.5 x 52.2 in (2174 x 775 x 1325 mm)  
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## Dealer

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