



Image shown may not reflect actual configuration

## Standby 275 kW 344 kVA – 60 Hz

- UL2200:** Evaluated by ETL to UL Standard for Safety UL2200
- CSA:** Designed in accordance to CSA22.2 standards
- NFPA:** Facilitates compliance with NFPA110
- Type 10:** Product was tested to NFPA110 Type 10

## SPECIFICATIONS

### Engine

Engine Model	14.2 L, In-line 6, 4-cycle
Bore x Stroke	135 mm x 165 mm (5.31 in x 6.50 in)
Displacement	14.17 L (864.71 in <sup>3</sup> )
Compression Ratio	9.5:1
Aspiration	Turbocharged-Aftercooled
Fuel System	Carburetor, Down Draft
Governor	Electronic
Fuel Type	Natural Gas
Emission Certifications	U.S. EPA Certified
Rated Engine Speed	1800 rpm

### General

Cylinder No.	6
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### Engine Governing

Frequency Regulation (Steady State)	+/- 0.25%
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### Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-flow Cartridge
Crankcase Capacity – L (qts)	34.3 (36.2)

### Cooling System

Cooling System Type	Pressurized Closed Recovery
Coolant Heater Standard Voltage/Wattage	120 V/1500 W

### Fuel System

Fuel Type	Natural Gas
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard (Dual)
Operating Fuel Pressure (Standard)	7" - 11" H <sub>2</sub> O

### Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Voltage	(2) 12 VDC

## ENGINEERED OPTIONS

<b>Engine System</b>	Coolant Heater Ball Valves
	Fluid Containment Pans
<b>Alternator System</b>	3rd Breaker Systems
<b>Generator Set</b>	Special Testing
	Battery Box

<b>Enclosure</b>	Motorized Dampers
	Enclosure Ambient Heaters
<b>Control System</b>	EMCP 4.2B
	Battery Disconnect Switch

## POWER RATINGS – NATURAL GAS

Natural Gas		
Three-Phase 120/208 VAC @0.8pf	275 kW	Amps: 954
Three-Phase 120/240 VAC @0.8pf	275 kW	Amps: 827
Three-Phase 277/480 VAC @0.8pf	275 kW	Amps: 413
Three-Phase 346/600 VAC @0.8pf	275 kW	Amps: 331

## STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip													
	480 VAC							208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	275	303	454	605	757	908	1059	227	341	454	568	681	794

## FUEL CONSUMPTION RATES\*

Natural Gas – ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	
Percent Load	Standby
25%	971.1 (27.5)
50%	1704.2 (48.3)
75%	2403.2 (68.1)
100%	3160.9 (89.5)

\*Fuel supply installation must accommodate fuel consumption rates at 100% load.

## COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft <sup>3</sup> /min (m <sup>3</sup> /min)	16,712 (473.2)
Coolant Flow per Minute	gpm (lpm)	110 (416)
Coolant System Capacity	gal (Liters)	14.5 (54.9)
Heat Rejection to Coolant	BTU/hr	872,408
Max. Operating Air Temp on Radiator	°F (°C)	110 (43)
Maximum Radiator Backpressure	in H <sub>2</sub> O	0.5

## COMBUSTION AIR REQUIREMENTS

		Standby
Flow at Rated Power	cfm (m <sup>3</sup> /min)	765.6 (21.7)

## ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	415
BMEP	psi	211.3

\*\*Refer to "Emissions Data Sheet" for maximum bhp for EPA and SCAQMD permitting purposes.

## EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	2677 (75.8)
Maximum Recommended Backpressure	inHg	0.75
Exhaust Temp (Rated Output)	°F (°C)	1350 (732)
Exhaust Outlet Size (Open Set)	in	3.5" ID Flex (no muffler)

Deration – For power deration rates reference, please consult Cat LEHE1699-00.

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