



Image shown may not reflect actual configuration

Standby 175 kW 219 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 ³)
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
Water Pump Flow – gpm (lpm)	94 (356)
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 ₂ O

Engine Electrical System

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

ENGINEERED OPTIONS

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

Enclosure	Motorized Dampers
	Enclosure Ambient Heaters
Control System	EMCP 4.2B
	Battery Disconnect Switch

POWER RATINGS – NATURAL GAS

	Natural Gas	
Single-Phase 120/240 VAC @1.0pf	175 kW	Amps: 729
Three-Phase 120/208 VAC @0.8pf	175 kW	Amps: 607
Three-Phase 120/240 VAC @0.8pf	175 kW	Amps: 526
Three-Phase 277/480 VAC @0.8pf	175 kW	Amps: 263
Three-Phase 346/600 VAC @0.8pf	175 kW	Amps: 210

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	175	187	280	373	467	560	653	140	210	280	350	420	490
Upsize 1	200	187	280	373	467	560	653	140	210	280	350	420	490
Upsize 2	250	263	395	527	658	790	922	197	296	395	494	593	692

FUEL CONSUMPTION RATES*

Natural Gas – ft ³ /hr (m ³ /hr)	
Percent Load	Standby
25%	819 (23.2)
50%	1404 (39.8)
75%	1895 (53.7)
100%	2340 (66.3)

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

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft ³ /min (m ³ /min)	9389 (265.9)
Coolant System Capacity	gal (Liters)	6.1 (23.1)
Heat Rejection to Coolant	BTU/hr	597,740
Max. Operating Air Temp on Radiator	°F (°C)	122 (50)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	110 (43.3)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

		Standby
Flow at Rated Power	cfm (m ³ /min)	389 (11.0)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	267
BMEP	psi	157

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

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m ³ /min)	1349 (38.2)
Maximum Recommended Backpressure	inHg	0.75
Exhaust Temp (Rated Output)	°F (°C)	1378 (748)
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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