STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY LOCATED AT THE FIRSTLIGHT HYDRO GENERATING COMPANY PROPERTY AT KENT ROAD IN THE TOWN OF NEW MILFORD, CONNECTICUT

DOCKET NO. 444

December 11, 2014

NEW CINGULAR WIRELESS, PCS LLC (AT&T) RESPONSES TO CONNECTICUT SITING COUNCIL D&M PLAN QUESTION

- Q1. Order No/ 2(b) of the Connecticut Siting Council's Decision and Order in Docket No.444 notes that the Development and Management Plan (D&M Plan) shall include, "...specifications for the emergency backup generator..." Provide the specification sheet(s) for the 50-kW propane-fueled backup generator noted on Sheet C-2 of the D&M Plan.
- A1. Attached are the specifications for AT&T's 50-kW propane fueled backup emergency generator.

CERTIFICATE OF SERVICE

I hereby certify that on this day, an original and fifteen copies of the foregoing was sent electronically and by overnight mail to the Connecticut Siting Council with a copy to:

Mayor Pat Murphy New Milford Town Hall 10 Main Street New Milford, CT 06776 860-355-6010 Mayor@newmilford.org

First Selectman Clay Cope Sherman Board of Selectman Mallory Town Hali 9 Rt 39 North PO Box 39 Sherman, CT 06784 860-355-1139 CCope@townofshermanct.org

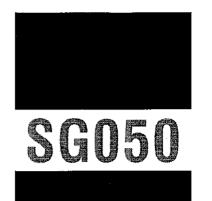
Dated: December 11, 2014

cc:

Michele Briggs, AT&T

nci Choechio

John Lawrence, Centerline Communications Alex Murshteyn, Centerline Communications

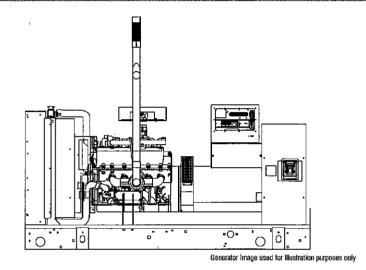




Industrial Gaseous Generator Set

EPA Certified Stationary Emergency

Standby Power Rating 63kVA 50kW



features

- RHINOCOAT PAINT SYSTEM

benefits

- PROTOTYPE & TORSIONALLY TESTED
- **UL2200 TESTED**
- WIDE RANGE OF ENCLOSURES

- PROVIDES A PROVEN UNIT
- ENSURES A QUALITY PRODUCT IMPROVES RESISTANCE TO ELEMENTS
- PROVIDES A SINGLE SOURCE SOLUTION

- EPA COMPLIANT
- INDUSTRIAL TESTED, GENERAC APPROVED
- POWER-MATCHED OUTPUT
- INDUSTRIAL GRADE

- ENVIRONMENTALLY FRIENDLY
- ENSURES INDUSTRIAL STANDARDS
- ENGINEERED FOR PERFORMANCE IMPROVES LONGEVITY AND RELIABILITY

- TWO-THIRDS PITCH
- LAYER WOUND ROTOR & STATOR
- CLASS H MATERIALS
- DIGITAL 3-PHASE VOLTAGE CONTROL
- ELIMINATES HARMFUL 3RD HARMONIC
- IMPROVES COOLING
- HEAT TOLERANT DESIGN
- FAST AND ACCURATE RESPONSE

Controls

- ENCAPSULATED BOARD W/ SEALED HARNESS
- 4-20mA VOLTAGE-TO-CURRENT SENSORS
- SURFACE-MOUNT TECHNOLOGY
- ADVANCED DIAGNOSTICS & COMMUNICATIONS
- EASY, AFFORDABLE REPLACEMENT
- NOISE RESISTANT 24/7 MONITORING
- PROVIDES VIBRATION RESISTANCE
- HARDENED RELIABILITY

















SG050

application and engineering data

<u>General</u>		Cooling System	B
Make	Generac	Cooling System Type	Pressurized Closed
EPA Emissions Compliance	Stationary Emergency	Water Pump Flow	38 gal/min
EPA Emissions Engine Reference	See Emissions Data Sheet	Fan Type	Pusher
Cylinder #		Fan Speed (rpm)	2300
Type	V	Fan Diameter mm (in.)	558 (22)
Displacement - L (Gu. In.)	6.8 (414.96)	Coolant Heater Waltage	1500
Bore - mm (in.)	90.17 (3.55)	Coolant Heater Standard Voltage	120V
Stroke - mm (in.)	105.92 (4.17)		
Compression Ratio	9:1		
Intake Air Method	Naturally Aspirated		
Number of Main Bearings	7	<u>Fuel System</u>	
Connecting Rods	Forged	Fuel Type	natural gas, propane
Cylinder Head	Aluminum	Carburetor	Down Draft
Cylinder Liners	No	Secondary Fuel Regulator	Standard
Ignition	High Energy	Fuel Shut Off Solenoid	Standard
Pistons	Aluminum Alloy	Operating Fuel Pressure	11" - 14" H2O
Crankshaft	Steel		
Lifter Type	Overhead Cam		
Intake Valve Material	Steel Alloy		
Exhaust Valve Malerial	Steel Alloy	Engine Electrical System	
Hardened Valve Seats	Yes	System Voltage	12VDC
		Battery Charging Alternator (Amps)	30
Lubrication System		Battery Size	925CCA
Oil Pump Type	Gear	Battery Group	31
Oil Filter Type	Full-flow spin-on cartridge	Battery Voltage	12VDC
Crankcase Capacity – L (qts)	5.7 (6)	Ground Polarity	Negalive
LTERNATOR SPECIFICATIONS			
Standard Model	390	Voltage Regulator Type	Full Digital
Poles	4	Number of Sensed Phases	5
Field Type	Revolving	Regulation Accuracy (Steady State)	+/- 0.25%
Insulation Class - Rotor			
Insulation Class - Stator	Н		
Total Harmonic Distortion	<5%	Engine Governing	
Telephone Interference Factor (TIF)	<50	Governor	Electronic
Standard Excitation	Brushless	Frequency Regulation (Steady State)	+/-0.25%
Bearings	Sealed Ball		
Coupling	Flexible Disc		
Load Capacity - Standby	100%		
Prototype Short Circuit Test	Yes		

NFPA 99 NFPA 110

BS5514 SAE J1349

ISO 8528-5

DIN6271

ISO 1708A.5

IEEE C62,41 TESTING

ISO 3046

NEMA ICS 1

3 of 5



SG050

operating data (60Hz)

POWER	RATINGS	(kW)
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		Natural Gas	Propane Vapor		
Single-Phase 120/240VAC @1.0pf	50	Amps: 208	50	Amps: 208	
Three Phase 120/208VAC @0.8pf	50	Ampsi 173	50	Amps: 173	
Three-Phase 120/240VAC @0.8pf	50	Amps: 150	50	Amps: 150	
Three-Phase 277/480VAC @0.8pf	50	Amps: 75	50	Amps: 75	
Three-Phase 346/600VAC @0.8pf	50	Amps: 60	50	Amps: 60	

STARTING CAPABILITIES (SKVA)

sKVA vs. Voltage Dip

		480VAC				208/240VAC							
<u>Alternator</u>	<u>kW</u>	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	50	34	52		86		120	26	39	52	65	77	90
Upsize 1	60	42	63	83	104	125	146	32	47	62	78	94	110 154
Upsize 2	70		88	117	147	176	205	44	66	88	110	132	154
Upsize 3	100	79	118	157	197	236	275	59	89	118	148	177	206
Upsize 4*	130	116	174	232	290	348	406	87	131	174	218	261	305

^{*}Brushless excitation only

<u>FUEL</u>

Fuel Consumption Rates**

<u>Natur</u>	al Gas		Propane Vapor				
Percent Load	ft³/hr	m³/hr	Percent Load	ft³/hr	gal/hr	m³/hr	
25%	258	7.3	25%	107	2,9	3.0	
50%		12.0	50%	176	4.8	50	
75%	592	16.8	75%	245	6.7	6,9	
100%	760	21.5	100%	315	8.7		
** Refer to "En	nissions Data S	Sheet" for maxi	mum fuel flow for EPA and S	CAQMD perm	itting purposes	3.	

COOLING

STANDBY

Air Flow (inlet air combustion and radiator)	ft³/min (m³/min)	5760 (163.1)
System Coolant Capacity	Gal (Liters)	6.3 (23.9)
Heat Rejection to Coolant	BTU/hr	212,800
Max. Operating Air Temp on Radiator	°F (°C)	122 (50)
Max. Ambient Temperature	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H,O	1.50

COMBUSTION AIR REQUIREMENTS

071117011	
Standby	

Flow at Rated Power

160

ENGINE

STANDRY

		STANDOT
Raled Engine Speed	rpm	1800
Horsepower at Rated kW***	hρ	80
Piston Speed	ft/min	1251
BMEP	psi	84.7

^{***} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

EXHAUST

		STANDBY
Exhaust Flow (Rated Output)	cfm (m³/min)	455 (12.9)
Maximum Recommended Back Pressure	inHg	1.5
Exhaust Temp (Rated Output)	ºF (ºC)	1000 (537.8)
Exhaust Outlet Size (Open Set)	in	2.5"



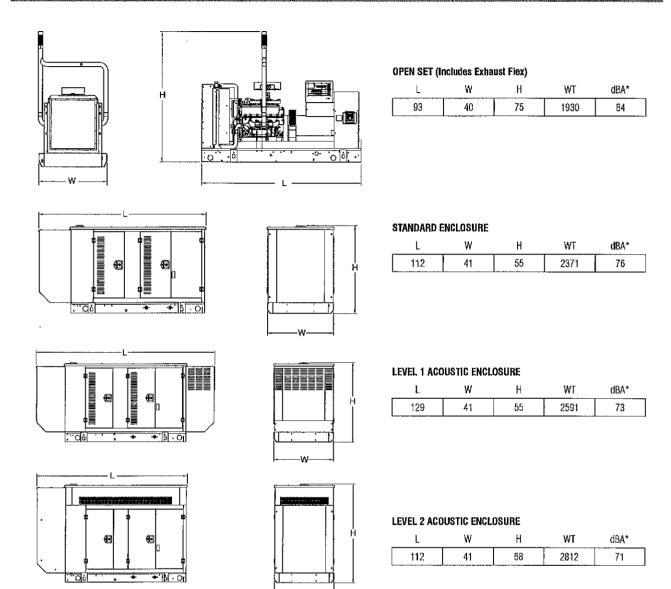
SG050

standard features and options

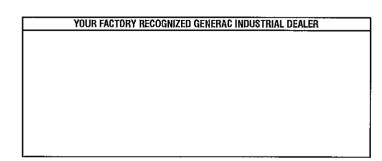
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BC-465 Signature Signatu	· ·	TE OTOTEM		•	Special Applications Programmable PLC	Std
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Oil Make-ty System	_		014	•	RS-485	Std
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dimensions, weights and sound levels



^{*}All measurements are approximate and for estimation purposes only. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.



Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.