Product Specifications



LNX-6514DS-VTM

Andrew® Antenna, 698-896 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	698-806	806-896
Gain, dBi	15.7	16.3
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal Tolerance, degrees	±3	±3
Beamwidth, Vertical, degrees	12.5	11.2
Beam Tilt, degrees	0-10	0-10
USLS, typical, dB	17	18
Front-to-Back Ratio at 180°, dB	32	30
CPR at Boresight, dB	20	20
CPR at Sector, dB	10	10
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	~153
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°

Mechanical Specifications

Color | Radome Material

Light gray | Fiberglass, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 2

Wind Loading, maximum

617.7 N @ 150 km/h 138.9 lbf @ 150 km/h

Wind Speed, maximum

241.0 km/h | 149.8 mph

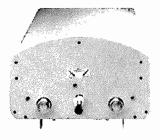
Antenna Dimensions, L x W x D

1847.0 mm x 301.0 mm x 181.0 mm | 72.7 in x 11.9 in x 7.1 in

Net Weight

17.6 kg | 38.8 lb

Model with factory installed AISG 2.0 RET LNX-6514DS-A1M



Product Specifications

HBXX-6517DS-VTM

Andrew® Quad Port Teletilt® Antenna, 1710-2180 MHz, 65° horizontal beamwidth, RET compatible



Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	18.5	18.6	18.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4
	0 ° 18.4	0 ° 18.4	0° 18.7
Gain by Beam Tilt, average, dBi	3 ° 18.7	3 ° 18.7	3° 18.9
	6 ° 18.4	6° 18.5	6° 18.6
Beamwidth, Horizontal, degrees	67	66	65
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.7	±2.9
Beamwidth, Vertical, degrees	5.0	4.7	4.4
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3
Beam Tilt, degrees	0-6	0-6	0-6
USLS, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26
CPR at Boresight, dB	22	23	22
CPR at Sector, dB	10	10	9
Isolation, dB	30	30	. 30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°

^{*}Values calculated using NGMN Alliance N-P-BASTA v9.6

Mechanical Specifications

Color | Radome Material Light gray | PVC, UV resistant

Connector Interface | Location | Quantity 7-16 DIN Female | Bottom | 4

Wind Loading, maximum

668.0 N @ 150 km/h 150.2 lbf @ 150 km/h

Wind Speed, maximum

241.0 km/h | 149.8 mph

Antenna Dimensions, L x W x D

1903.0 mm x 305.0 mm x 166.0 mm | 74.9 in x 12.0 in x 6.5 in

Net Weight 19.5 kg | 43.0 lb

Model with factory installed AISG 2.0 RET HBXX-6517DS-A2M





Alcatel-Lucent RRH2x40-07-U

The Alcatel-Lucent RRH2x40-07-U is a high-power, small form-factor Remote Radio Head (RRH) operating in the North American Digital Dividend / 700MHz frequency band (3GPP Band 13). The Alcatel-Lucent RRH2x40-07-U is designed with an eco-efficient approach, providing operators with the means to achieve high quality and capacity coverage with minimum site requirements.



A distributed eNodeB expands deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radiofrequency (RF) elements. This modular design optimizes available space and allows the main components of an eNodeB to be installed separately, within the same site or several kilometres apart.

The Alcatel-Lucent RRH2x40-07-U is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information. The Alcatel-Lucent RRH2x40-07-U has two transmit RF paths, 40 W RF output power per transmit path, and is designed to manage up to two-way receive diversity. The device is ideally suited to support macro coverage, with multiple-input multiple-output (MIMO) 2x2 operation in up to 10 MHz of bandwidth.

The Alcatel-Lucent RRH2x40-07-U is designed to make available all the benefits of a distributed eNodeB, with excellent RF characteristics, with low

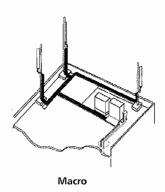
capital expenditures (CAPEX) and low operating expenditures (OPEX). The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment or require costly cranes to be employed, leaving coverage holes. However, many of these sites can host an Alcatel-Lucent RRH2x40-07-U installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

Fast, low-cost installation and deployment

The Alcatel-Lucent RRH2x40-07-U is a zero-footprint solution and operates noise-free, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person because the Alcatel-Lucent RRH2x40-07-U is compact and weights less than 23 kg (50 lb), eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day — a fraction of the time required for a traditional BTS.

Excellent RF performance

Because of its small size and weight, the Alcatel-Lucent RRH2x40-07-U can be installed close to the antenna. Operators can therefore locate the Alcatel-Lucent RRH2x40-07-U where RF engineering is deemed ideal, minimizing trade-offs between available sites and RF optimum sites. The RF feeder cost and installation costs are reduced or eliminated, and there is no need for a Tower Mounted Amplifier (TMA) because losses introduced by the RF feeder are greatly reduced. The Alcatel-Lucent RRH2x40-07-U provides more RF power while at the same time consuming less electricity.

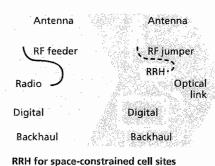


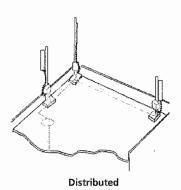
Features

- · Zero-footprint deployment
- Easy installation, with a lightweight unit can be carried and set up by one person
- Optimized RF power, with flexible site selection and elimination of a TMA
- Convection-cooled (fanless), noise-free, and heaterless unit
- Best-in-class power efficiency, with significantly reduced energy consumption

Benefits

- Leverages existing real estate with lower site costs
- Reduces installation costs, with fewer installation materials and simplified logistics
- Decreases power costs and minimizes environmental impacts, with the potential for eco-sustainable power options
- Improves RF performance and adds flexibility to network planning





Technical specifications

Physical dimensions

- Height: 390 mm (15.4 in.)
- Width: 380 mm (15 in.)
- Depth: 210 mm (8.2 in.)
- Weight (without mounting kit): less than 23 kg (50 lb)

Power

• Power supply: -48V

Operating environment

- Outdoor temperature range:
 - ¬ With solar load: -40°C to +50°C (-40°F to +122°F)
 - → Without solar load: -40°C to +55°C (-40°F to +131°F)
- Passive convection cooling (no fans)

- Enclosure protection
- ¬ IP65 (International Protection rating)

RF characteristics

- Frequency band: 700 MHz; 3GPP Band 13
- Bandwidth: up to 10 MHz
- RF output power at antenna port:
- ¬ 40 W nominal RF power for each Tx port
- Rx diversity: 2-way or 4-way
- · Noise figure: below 2.5 dB typical
- ALD features
 - ¬ TMA
 - ¬ Remote electrical tilt (RET) support (AISG v2.0)

Optical characteristics Type/number of fibers

- Up to 3.12 Gb/s line bit rate
- · Single-mode variant
- ¬ One SM fiber (9/125 μm) per RRH2x, carrying UL and DL using CWDM (at 1550/1310 nm)
- Multi-mode variant
- ¬ Two MM fibers (50/125 μm) per RRH2x: one carrying UL, the other carrying DL (at 850 nm)

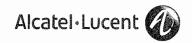
Optical fiber length

- Up to 500 m (0.31 mi), using MM fiber
- Up to 20 km (12.43 mi), using SM fiber

Alarms and ports

- Six external alarms
- Two optical ports to support daisy-chaining

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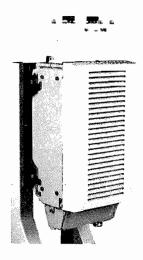




Alcatel-Lucent RRH2x40-AWS

REMOTE RADIO HEAD

The Alcatel-Lucent RRH2x40-AWS is a high-power, small form-factor Remote Radio Head (RRH) operating in the AWS frequency band (1700/2100MHz - 3GPP Band 4). The Alcatel-Lucent RRH2x40-AWS is designed with an eco-efficient approach, providing operators with the means to achieve high quality and capacity coverage with minimum site requirements.



A distributed eNodeB expands deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radiofrequency (RF) elements. This modular design optimizes available space and allows the main components of an eNodeB to be installed separately, within the same site or several kilometres apart.

The Alcatel-Lucent RRH2x40-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information. The Alcatel-Lucent RRH2x40-AWS has two transmit RF paths, 40 W RF output power per transmit path, and is designed to manage up to four-way receive diversity. The device is ideally suited to support macro coverage, with multiple-input multiple-output (MIMO) 2x2 operation in up to 20 MHz of bandwidth.

The Alcatel-Lucent RRH2x40-AWS is designed to make available all the benefits of a distributed eNodeB, with excellent RF characteristics, with low

capital expenditures (CAPEX) and low operating expenditures (OPEX). The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment or require costly cranes to be employed, leaving coverage holes. However, many of these sites can host an Alcatel-Lucent RRH2x40-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

Fast, low-cost installation and deployment

The Alcatel-Lucent RRH2x40-AWS is a zero-footprint solution and operates noise-free, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person because the Alcatel-Lucent RRH2x40-AWS is compact and weighs less than 20 kg (44 lb), eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day — a fraction of the time required for a traditional BTS.

Excellent RF performance

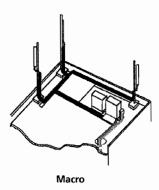
Because of its small size and weight, the Alcatel-Lucent RRH2x40-AWS can be installed close to the antenna. Operators can therefore locate the Alcatel-Lucent RRH2x40-AWS where RF engineering is deemed ideal, minimizing trade-offs between available sites and RF optimum sites. The RF feeder cost and installation costs are reduced or eliminated, and there is no need for a Tower Mounted Amplifier (TMA) because losses introduced by the RF feeder are greatly reduced. The Alcatel-Lucent RRH2x40-AWS provides more RF power while at the same time consuming less electricity.

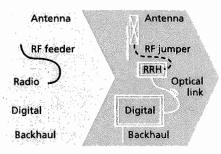
Features

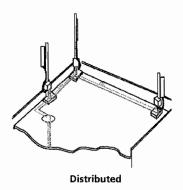
- · Zero-footprint deployment
- Easy installation, with a lightweight unit can be carried and set up by one person
- Optimized RF power, with flexible site selection and elimination of a TMA
- Convection-cooled (fanless)
- Noise-free
- Best-in-class power efficiency, with significantly reduced energy consumption

Benefits

- Leverages existing real estate with lower site costs
- Reduces installation costs, with fewer installation materials and simplified logistics
- Decreases power costs and minimizes environmental impacts, with the potential for eco-sustainable power options
- Improves RF performance and adds flexibility to network planning







RRH for space-constrained cell sites

Technical specifications

Physical dimensions

- Height: 620 mm (24.4 in.)
- Width: 270 mm (10.63 in.)
- Depth: 170m (6.7 in.)
- Weight (without mounting kit): less than 20 kg (44 lb)

Power

• Power supply: -48VDC

Operating environment

- · Outdoor temperature range:
 - ¬ With solar load: -40°C to +50°C (-40°F to +122°F)
 - ¬ Without solar load: -40°C to +55°C (-40°F to +131°F)

- Passive convection cooling (no fans)
- · Enclosure protection
 - ¬ IP65 (International Protection rating)

RF characteristics

- Frequency band: 1700/2100 MHz (AWS); 3GPP Band 4
- Bandwidth: up to 20 MHz
- RF output power at antenna port: 40 W nominal RF power for each Tx port
- Rx diversity: 2-way or 4-way with optional Rx Diversity module
- Noise figure: below 2.0 dB typical
- · Antenna Line Device features
 - ¬ TMA and Remote electrical tilt (RET) support via AISG v2.0

Optical characteristics Type/number of fibers

Single-mode variant

- One Single Mode Single Fiber per RRH2x, carrying UL and DL using CWDM
- ¬ Single mode dual fiber (SM/DF)
- Multi-mode variant
- ¬ Two Multi-mode fibers per RRH2x: one carrying UL, the other carrying DL

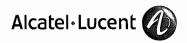
Optical fiber length

- Up to 500 m (0.31 mi), using MM fiber
- Up to 20 km (12.43 mi), using SM fiber

Digital Ports and Alarms

- Two optical ports to support daisy-chaining
- Six external alarms

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Industrial Spark-Ignited Generator Set

EPA Certified Stationary Emergency

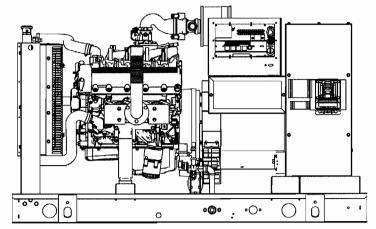
5.4L

Standby Power Rating
35 kW 44 kVA 60 Hz

Prime Power Rating*
32 kW 39 kVA 60 Hz







*EPA Certified Prime ratings are not available in the U.S. or its Territories

Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4

NEMA

NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

American National Standards Institute



IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

GENERAC INDUSTRIAL

SG035

Standard Features

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator duct adapter (open set only)

Fuel System

- Primary and Secondary Fuel Shutoff
- Flexible Fuel Line NPT Connection

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-installed Radiator
- Radiator drain extension
- 50/50 Ethylene glycol antifreeze

Engine Electrical System

- Battery charging alternator
- Battery Cables
- Battery Tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

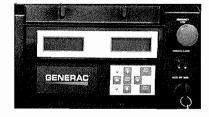
GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits high/low voltage
- Separation of circuits multiple breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Warranty (Prime rated units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (if selected)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat[™] Textured polyester powder coat

CONTROL SYSTEM



Control Panel

- Digital H Control Panel Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run

- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual SwitchE-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)



Configurable Options

ENGINE SYSTEM	GENERATOR SET	ENCLOSURE
General Engine Block Heater Oil Heater Air Filter Restriction Indicator Stone Guard (Open Set Only) Critical Exhaust Silencer (Open Set Only / Standard on Ultra Low Emissions Option) Engine Electrical System 10A UL battery charger 2.5A UL battery charger Battery Warmer	O Gen-Link Communications Software (English Only) O Extended Factory Testing (3 Phase Only) O IBC Seismic Certification O 8 Position Load Center O 2 Year Extended Warranty O 5 Year Warranty O 5 Year Extended Warranty	O Standard Enclosure C Level 1 Sound Attenuation C Level 2 Sound Attenuation Steel Enclosure Aluminum Enclosure 150 MPH Wind Kit 12 VDC Enclosure Lighting Kit 120 VAC Enclosure Lighting Kit AC/DC Enclosure Lighting Kit Door Alarm Switch
LTERNATOR SYSTEM	CIRCUIT BREAKER OPTIONS O Main Line Circuit Breaker	
O Alternator Upsizing O Anti-Condensation Heater O Tropical coating O Permanent Magnet Excitation	 Main Line Circuit Breaker 2nd Main Line Circuit Breaker Shunt Trip and Auxiliary Contact Electronic Trip Breakers 	
CONTROL SYSTEM		-
 21-Light Remote Annunciator Remote Relay Panel (8 or 16) Oil Temperature Sender with Indication Alarm 	 Remote E-Stop (Break Glass-Type, Surface Mount) Remote E-Stop (Red Mushroom-Type, Surface Mount) Remote E-Stop (Red Mushroom-Type, Flush Mount) 	 Remote Communication - Modem Remote Communication - Ethernet 10A Run Relay Ground fault indication and protection functions
Engineered Options ENGINE SYSTEM	GENERATOR SET	CONTROL SYSTEM
O Coolant heater ball valves O Fluid containment pans	Special TestingBattery Box	 Spare inputs (x4) / outputs (x4) - H Pane Only Battery Disconnect Switch
ALTERNATOR SYSTEM	ENCLOSURE	=
O 3rd Breaker Systems	O Motorized Dampers	

Rating Definitions

Standby – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime — Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications.

Power ratings in accordance with ISO 8528-1, Second Edition dated 2005-06-01, definitions for Prime Power (PRP) and Emergency Standby Power (ESP).



application and engineering data

ENGINE SPECIFICATIONS

_			
c	01	20	20

Make Cylinder # Type Displacement - L (Cu In) Bore - mm (in) Stroke - mm (in) Compression Ratio Intake Air Method Number of Main Bearings Connecting Rods Cylinder Head Cylinder Liners Ignition Pistons Crankshaft Lifter Type Intake Valve Material

Generac
8
V
5.4 (329.53)
90.17 (3.55)
105.92 (4.17)
9:1
 Naturally Aspirated
 4
Forged
Aluminum
No
Single Fire
Aluminum Alloy
Nodular Iron
 Hydraulic
Steel Alloy
Hardened Steel
Yes

Engine Governing

Exhaust Valve Material

Hardened Valve Seats

Governor Frequency Regulation (Steady State)

Electronic	
+/- 0.25%	

Lubrication System

Oil Pump Type
Oil Filter Type
Crankcase Capacity - L (qts)

Gear
Full-flow spin-on cartridge
5.7 (6)

Cooling System

Cooling System Type
Water Pump Flow - gpm (Ipm)
Fan Type
Fan Speed (rpm)
Fan Diameter mm (in)
Coolant Heater Wattage
Coolant Heater Standard Voltage

	Pressurized Closed Recovery
	38 (144)
	Pusher
Г	2143
	508 (20)
	1500
	120 V

Fuel System

Fuel Type
Carburetor
Secondary Fuel Regulator
Fuel Shut Off Solenoid
Operating Fuel Pressure

Natural Gas, Propane Vapor
Down Draft
Standard
Standard
7" - 11" H ₂ 0

Engine Electrical System

System Voltage Battery Charging Alternator

Battery Size
Battery Voltage
Ground Polarity

12 VDC	
Standard	
See Battery Index 0161970SBY	
12 VDC	
Negative	

ALTERNATOR SPECIFICATIONS

Standard Model
Poles
Field Type
Insulation Class - Rotor
Insulation Class - Stator
Total Harmonic Distortion
Telephone Interference Factor (TIF)
Standard Excitation
Bearings
Coupling

Prototype Short Circuit Test

390
4
Revolving
Н
Н
<5%
< 50
Brushless
Sealed Ball
Flexibile Disc
Yes

Voltage Regulator Type Number of Sensed Phases Regulation Accuracy (Steady State)

Full Digital
All
+/- 0.25%



operating data

POWER RATINGS

		Natural Gas	P	ropane Vapor
Single-Phase 120/240 VAC @1.0pf	35 kW	Amps: 146	35 kW	Amps: 146
Three-Phase 120/208 VAC @0.8pf	35 kW	Amps: 121	35 kW	Amps: 121
Three-Phase 120/240 VAC @0.8pf	35 kW	Amps: 105	35 kW	Amps: 105
Three-Phase 277/480 VAC @0.8pf	35 kW	Amps: 53	35 kW	Amps: 53
Three-Phase 346/600 VAC @0.8pf	35 kW	Amps: 42	35 kW	Amps: 42

STARTING CAPABILITIES (SKVA)

KVA vs.	Voltage	Dip
---------	---------	-----

		480 VAC 208/240 VAC				480 VAC							
Alternator	<u>kW</u>	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	35	24	36 .	48	60	72	84	18	27	36	45	54	63
Upsize 1	40	27	41	54	68	81	95	20	31	41	51	61	71
Upsize 2	50	34	52	69	. 86	103	120	26	39	52	65	77	90
Upsize 3	60	42	63	83	104	125	146	32	47	62	78	94	110

FUEL CONSUMPTION RATES*

Natural Gas — ft³/hr (m³/hr)				
Percent Load	Standby			
25%	239 (6.8)			
50%	409 (11.6)			
75%	553 (15.7)			
100%	682 (19.3)			

Propane Vapor ft3/hr (m3/hr)				
Percent Load Standby				
25%	69.8 (2.0)			
50%	119.7 (3.4)			
75%	161.6 (4.6)			
100%	219.8 (6.2)			

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

COOLING

ta			

		,
Air Flow (inlet air combustion and radiator)	ft³/min (m³/min)	2460 (69.7)
Coolant Flow per Minute	gpm (lpm)	38 (144)
Coolant System Capacity	gal (L)	3 (11.36)
Heat Rejection to Coolant	BTU/hr	144,000
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 0	0.5

COMBUSTION AIR REQUIREMENTS

| Standby | Flow at Rated Power | cfm (m3/min) | 87 (2.5)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	54
Piston Speed	ft/min (m/min)	1251 (381)
BMEP	psi	72

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

EXHAUST

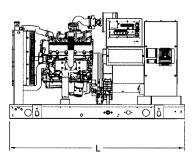
		Standby
Exhaust Flow (Rated Output)	cfm (m³/min)	260 (7.4)
Maximum Recommended Back Pressure	inHg	1,5
Exhaust Temp (Rated Output)	°F (°C)	900 (482)
Exhaust Outlet Size (Open Set)	in	2.5" I.D. Flex (No muffler)

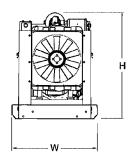




GENERAC INDUSTRIAL

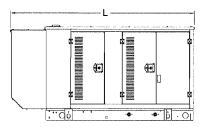
dimensions and weights

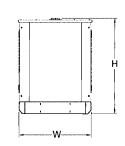




OPEN SET (Includes Exhaust Flex)

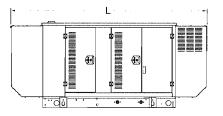
LxWxHin (mm)	76 (1930) x 37.4 (949.9) x 47 (1193.8)
Weight lbs (kg)	1575 (714)

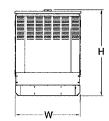




STANDARD ENCLOSURE

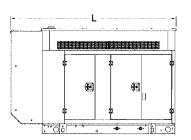
LxWxHin (mm)	94.8 (2408.9) x 38 (965.1) x 49.5 (1258.1)
Weight lbs (kg)	Steel: 2100 (952) Aluminum: 1754 (795)

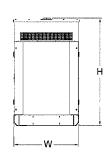




LEVEL 1 ACOUSTIC ENCLOSURE

LxWxHin (mm)	112.5 (2857.1) x 38 (965.1) x 49.5 (1258.1)
Weight lbs (kg)	Steel: 2140 (970) Aluminum: 1767 (801)





LEVEL 2 ACOUSTIC ENCLOSURE

LxWxHin (mm)	94.8 (2407) x 38 (965.1) x 62 (1573.9)
Weight lbs (kg)	Steel: 2328 (1056) Aluminum: 1831 (830)

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.