



FREEDOM GASEOUS PRIME: 15KW

The **WILDCAT FREEDOM** gaseous prime power generator is commercial grade and designed to run for extended periods of time.

Durable Industrial Engine

Usually reserved for industrial applications, the power plant is a premier industrial fixed speed (1,800 RPM) engine built to provide strong, reliable power without giving up quiet operation and engine longevity.

Digital Controls

Designed for single genset applications, the digital controls monitor the genset's voltage, current, power, frequency, engine speed, oil pressure and coolant temperature on a back-lit LCD display for ease of use.

Quality Clean Power

Voltage regulation ensures that electronics are safely powered with less 5% total harmonic distortion (THD) at no load.

Industrial Class Alternator

Protected with Class H insulation and standard 40° C nominal rating, the standard 12-wire winding and 2/3 pitch meet all key international standards and regulations.

NFPA-110

Genset is designed to exceed NFPA-110, Level 2 Emergency Power Supply Systems (EPSS) by providing prime power (PP) to meet EPSS Class 168 Type 10.

Easy To Service

Preventative maintenance and in-field repairs are made easier with our simplified engineering and non-proprietary parts.



Engine Make & Model

Zenith 1.6 Liter

Alternator Make & Model

Leroy Somer LSAP 40E

Controller Make & Model

Deep Sea Electronics 4522

Assembled Weight (lb / kg)

1,750 lbs 794 kgs

Overall Dimensions (in / mm)

78L x 31W x 46H 1970L x 775W x 1160H

GENERATOR SET RATINGS

Model	Voltage	Power Factor	Phase	Hertz	Circuit Breaker Amps	KW	KVA	BHP	Duty Cycle	Certifications
Freedom Gaseous 15 FE0015NGASXP	120 / 240	1.0	1	60	63	15	15	30	Prime Stationary	EPA Prime Power
Freedom Gaseous 15 FE0015PLASXP	120 / 240	1.0	1	60	63	15	15	32	Prime Stationary	EPA Prime Power

ENGINE SPECIFICATIONS

Engine

Manufacturer	ZENITH
Type	1.6L Industrial Powertrain, 4 Cycle, Naturally Aspirated
Speed (RPM)	1800
Cylinder Arrangement	Inline 4
Displacement (L)	1.6L
Bore & Stroke (in / mm)	3.032" x 3.362" / 77 x 85.4
Compression Ratio	11.0 : 1
Governor Type	Electronic
Frequency Regulation Steady Rate	0.25% (+/-)
Frequency Regulation	Isochronous
No Load To Full Load	
Air Filter Type	Dry
Limited Warranty	3 Year, 5,000 Hour

Lubrication System

Type	Full Pressure
Oil Capacity (qt / L)	3.49 / 3.30
Oil Filter (Quantity / Type)	1 / Spin-On

Cooling System

Radiator Type	Aluminum
Fan Type	Pusher

Sound Rating at 7 Meters, Lowest Side

75% Load	67 dB(A)
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Air Induction System

Air Flow (lb/hr)	131
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Engine Output Deratings

Rated Temperature (°F / °C)	77 / 25
Rated Altitude	1200 ft (366m) above sea level
Temperature Derate	1.5% for Each 10°F (5.6°C) Above Rated Temperature
Altitude Derate	2.5% for Each 1,000 ft (305m) Above Rated Altitude

Electrical System

Ignition System	Spark Ignition
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (A)	625
Battery Charging Alternator	
Ground (Negative / Positive)	Negative
Voltage (VDC)	12
Amperage (A)	70
Starter Motor Voltage (VDC)	12

Exhaust System

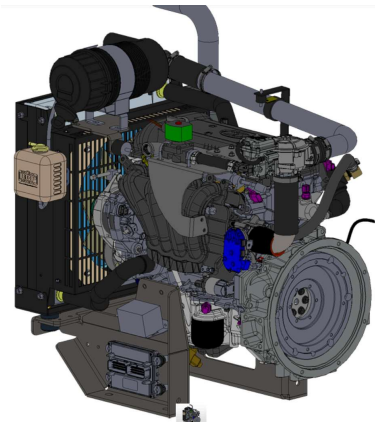
Exhaust Manifold Type	Dry
Exhaust Temp at Rated Load (°F / °C)	NG 1099° F / 593° C
Exhaust Temp at Rated Load (°F / °C)	LPV 1169° F / 631° C

Fuel System

Fuel Type	Propane or Natural Gas
Fuel Supply Line Inlet	1" NPT
Recommended Fuel (btu / ft3)	NG - 904
Lower Heating Value Minimum	LPV - 2338
Fuel Supply Pressure (in h2o)	7 - 11

Fuel Consumption

BSFC	Full Load	50% Load	No Load
Pipeline NG	172,830 BTU / HR	103,740 BTU / HR	43,260 BTU / HR
Propane	181,003 BTU / HR	107,967 BTU / HR	45,251 BTU / HR





ALTERNATOR SPECIFICATIONS

Wildcat Model	FE0015NGASXP	FE0015PLASXP	
Alternator Model	LSAP 40E / 40H	LSAP 40E / 40H	
Manufacturer	Leroy Somer	Leroy Somer	
Type	Brushless, 12- Lead	Brushless, 12- Lead	
Frequency (Hertz)	60	60	
Phase Voltage	1-Phase 120 / 240	1-Phase 120 / 240	
Winding Configuration	Double Delta	Double Delta	
Exciter Type	Shunt	Shunt	
Number of Poles	4	4	
Voltage Regulator	R120	R120	
Insulation Rating	Class H	Class H	
Designed Temperature Rise Limit	125 °C	125 °C	
Bearing (Quantity / Type)	1 / Sealed	1 / Sealed	
Coupling	Flexible Disk	Flexible Disk	
Amortisseur Windings	Full	Full	
Voltage Regulation, NL to FL	1.0% (+/-)	1.0% (+/-)	
Total Harmonic Distortion (THD) NL to FL	< 5%	< 5%	

Complete winding protection for non-harsh environment with relative humidity < 60%. Space heater required for <95%. IP23 Protection.

Manufactured according to the following standards: ISO 3046, ISO 8528-1, ISO 8528-5, IEC 60034-1, IS 13364

CONTROLLER SPECIFICATIONS

Manufacturer	Deep Sea Electronics
Model	DSE 4522
Display	Easy To Read Alpha-Numeric Scrolling Display
Monitoring	Diagnostic Conditions, Fault Codes, Weekly Exercise Cycle



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