



FREEDOM DIESEL PRIME: 10KW-15KW

The **WILDCAT FREEDOM** diesel 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

Kirloskar Oil Engines (KOEL) 2R550 / 3R550

Alternator Make & Model

Leroy Somer LSAP 40E

Controller Make & Model

Deep Sea Electronics 4522

Weight (Excluding Diesel Fuel)

1,547 lbs 701 kgs

Overall Dimensions (in / mm)

72L x 33W x 47H 1829L x 838W x 1207H

GENERATOR SET RATINGS

Model	Voltage	Power Factor	Phase	Hertz	Circuit Breaker Amps	KW	KVA	BHP	Duty Cycle	Certifications
Freedom Diesel 10 FE0010D4ASXP	120 / 240	1.0	1	60	40	9.5	9.5	12.74	Prime Stationary	EPA Tier 4 Final
Freedom Diesel 15 FE0015D4ASXP	120 / 240	1.0	1	60	63	14.3	14.3	19.18	Prime Stationary	EPA Tier 4 Final

ENGINE SPECIFICATIONS

Engine

Manufacturer	KOEL
Type	2R550 & 3R550 Industrial Powertrain, 4 Cycle, Naturally Aspirated
Speed (RPM)	1800
Cylinder Arrangement	Inline 2 / Inline 3
Displacement (L)	1.1L / 1.65L
Bore & Stroke (in / mm)	3.385" x 3.7" / 86 x 94
Compression Ratio	19.7 : 1
Governor Type	Electronic
Frequency Regulation Steady Rate	0.25% (+/-)
Frequency Regulation	Isochronous, Constant Speed
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 6.23 / 5.95
Oil Filter (Quantity / Type)	1 / Spin-On

Cooling System

Radiator Type	Horizontal Copper Alloy
Fan Type	Pusher

Sound Rating at 7 Meters, Lowest Side

75% Load	70 dB(A)
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Engine Crankcase Vent System

Engine Crankcase Vent System	Closed Crankcase Vent
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Engine Output Deratings

Rated Temperature (°F / °C)	77 / 25
Rated Altitude	328 ft (100m) 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	Compression Ignition
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (A)	900
Battery Charging Alternator	
Ground (Negative / Positive)	Negative
Voltage (VDC)	12
Amperage (A)	40
Starter Motor Voltage (VDC)	12

Exhaust System

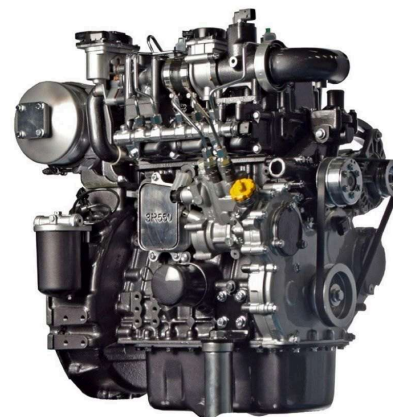
Exhaust Manifold Type	Dry
Exhaust Flow at Rated Load (kg / hr)	65 / 97
Exhaust Temp at Rated Load (°F / °C)	1202° F / 650° C
Max Allowable Back Pressure (Hg / kPa)	3.3 +/- 1.0

Fuel System

Fuel Type	Ultra-Low Sulfur Diesel
Fuel Injection Pump	Mechanical Fuel Injection
Fuel Filter	0.6 Liter Single Bowl Spin-On
Fuel Tank (10KW / 15KW)	8.7 gal / 9.5 gal

Fuel Consumption

	Full Load	50% Load	No Load
2R550	0.84 gal / hr	0.47 gal / hr	0.19 gal / hr
3R550	1.09 gal / hr	0.61 gal / hr	0.31 gal / hr





ALTERNATOR SPECIFICATIONS

Wildcat Model	FE0010D4ASXP	FE0015D4ASXP	
Alternator Model	LSAP 40E	LSAP 40E	
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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