



ROUGHNECK PRIME DIESEL: 100KW

The **WILDCAT ROUGHNECK** 100KW prime power stationary diesel generator is commercial grade and designed to run for extended periods of time as needed.

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

Isuzu 4HK1XAGV01

Alternator Make & Model

Stamford UCI274D

Controller Make & Model

Deep Sea Electronics DSE7320

Weight (Excluding Diesel Fuel)

6,150 lbs 2,790 kgs

Overall Dimensions (in / mm)

119L x 50W x 89H 3023L x 1270W x 2260H

GENERATOR SET RATINGS

Model	Voltage	Power Factor	Phase	Hertz	Circuit Breaker Amps	KW	KVA	BHP	Duty Cycle	Certifications
Roughneck Diesel 100 RO0100D4KS*P	120 / 240	1.0	1	60	400	70	70	170	Prime Stationary	EPA Tier 4F
Roughneck Diesel 100 RO0100D4KS*P	208 / 120	0.8	3	60	400	100	125	170	Prime Stationary	EPA Tier 4F
Roughneck Diesel 100 RO0100D4KS*P	240 / 120	0.8	3	60	400	100	125	170	Prime Stationary	EPA Tier 4F
Roughneck Diesel 100 RO0100D4KS*P	480 / 277	0.8	3	60	400	100	125	170	Prime Stationary	EPA Tier 4F

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ENGINE SPECIFICATIONS

Engine

Manufacturer	ISUZU
Type	4HK1XAGV01 Powertrain, 4 Cycle, Turbo Charged & Charge Air Cooled
Speed (RPM)	1800
Cylinder Arrangement	Inline 4
Displacement (L / cc)	5.2L / 5193cc
Bore & Stroke (in / mm)	4.52" x 4.92" / 115x 125
Compression Ratio	16.5 : 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)	24.2 / 22.9
Oil Filter (Type)	Spin On

Cooling System

Radiator Fan	Pusher
Radiator Air Flow (m3 / hr)	19,500

Sound Rating at 7 Meters, Lowest Side

ISO8528-10	Level II
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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)	104 / 40
Rated Altitude	3820 ft (1000m) 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

Starting Arrangement	12V Electric
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (A)	900
Battery Charging Alternator	
Ground (Negative / Positive)	Negative
Voltage (VDC)	12
Amperage (A)	50
Starter Motor Voltage (VDC)	12

Exhaust System

Exhaust Manifold Type	Dry
Exhaust Temp at Rated Load (°F / °C)	896° F / 480° C
Max Allowable Back Pressure (kPa G)	5.9 +/- 1.0

Fuel System

Fuel Type	Ultra-Low Sulfur Diesel
Fuel Injection Pump	Common Rail Fuel Injection
Fuel Filter	Full Flow Cartridge
Fuel Tank Size	150 Gallons

Fuel Consumption

Full Load	75% Load	50% Load
7.60 gal / hr	5.6 gal / hr	4.1 gal / hr





ALTERNATOR SPECIFICATIONS

Wildcat Model	RO0100D4KS*P	RO0100D4KS*P	RO0100D4KS*P	RO0100D4KS*P
Alternator Model	UCI274D	UCI274D	UCI274D	UCI274D
Manufacturer	Stamford	Stamford	Stamford	Stamford
Type	Brushless, 12- Lead	Brushless, 12- Lead	Brushless, 12- Lead	Brushless, 12- Lead
Frequency (Hertz)	60	60	60	60
Phase Voltage	1-Phase 120 / 240	3-Phase 208 / 120	3-Phase 240 / 120	3-Phase 480 / 277
Winding Configuration	Double Delta	Parallel Star	Series Delta	Series Star
Exciter Type	Self Exciter	Self Exciter	Self Exciter	Self Exciter
Number of Poles	4	4	4	4
Voltage Regulator	AS440	AS440	AS440	AS440
Insulation Rating	Class H	Class H	Class H	Class H
Designed Temperature Rise Limit	125 °C	125 °C	125 °C	125 °C
Bearing (Quantity / Type)	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed
Coupling	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk
Amortisseur Windings	Full	Full	Full	Full
Voltage Regulation, NL to FL	1.0% (+/-)	1.0% (+/-)	1.0% (+/-)	1.0% (+/-)
Total Harmonic Distortion (THD) NL to FL	< 5%	< 5%	< 5%	< 5%

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

Manufactured according to the following standards: ISO 3046, ISO 8528-1, ISO 8528-3, ISO 8528-5, IEC 60034-1, BS 5000-3

CONTROLLER SPECIFICATIONS

Manufacturer	Deep Sea Electronics
Model	DSE 7320
Display	Easy To Read Alpha-Numeric Scrolling Display
Monitoring	Diagnostic Conditions, Fault Codes, Weekly Exercise Cycle



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