



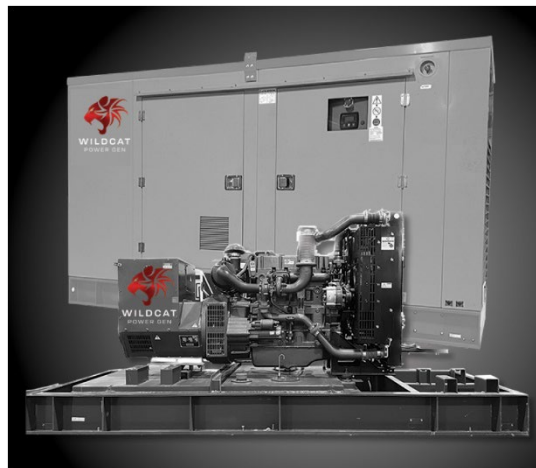
# WILDCAT

POWER GEN

## PROVIDING BETTER POWER

## ROUGHNECK DIESEL: 100KW

The Roughneck generator was designed with rugged simplicity in mind. Three phase, open skid or enclosed packages designed for emergency applications but built to run for extended power outage periods of time on prime rated liquid cooled engine platforms.



### Durable Industrial Engine

- Planned for emergency applications but built for industrial applications, the Roughneck's power plant is a premier industrial fixed speed (1,800 RPM) engine built to provide strong, reliable power without sacrificing engine longevity.

### Quality Clean Power

- Voltage regulation ensures that electronics are safely powered with less 2.5% total harmonic distortion (THD) at no load.

### NFPA-110

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

### Digital Controls

- Designed for single genset applications, the Roughneck's 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.

### Industrial Class Alternator

- Protected with Class H insulation and standard 40°C nominal rating, the Roughneck's standard 12-wire winding and 2/3 pitch meet all key international standards and regulations including UL 1446.

### Easy to Service

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

### GENERATOR SET RATING

Model	Voltage	Power Factor	Phase	Hertz	Circuit Breaker Amps	kW / kVA	BMEP (Bar)	BSFC (g/hp*hr)	Emission Compliance	Controller
Roughneck Diesel 75KW RO0100D3A*XE	120 / 240	1.0	1	60	350A	75 / 75	18.0	158	Tier 3	DeepSea
Roughneck Diesel 100KW RO0100D3B*XE	208 / 120	0.8	3	60	350A	100 / 125	18.0	158	Tier 3	DeepSea
Roughneck Diesel 100KW RO0100D3C*XE	240 / 120	0.8	3	60	300A	100 / 125	18.0	158	Tier 3	DeepSea
Roughneck Diesel 100KW RO0100D3D*XE	480 / 277	0.8	3	60	150A	100 / 125	18.0	158	Tier 3	DeepSea



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## ENGINE SPECIFICATIONS

### Engine

Manufacturer	KOEL
Type	4K1080TA1 Powertrain 4 Cycle, Turbo Charged & Charge Air Cooled
Speed (RPM)	1800
Cylinder Arrangement	Inline 4
Displacement (L / cc)	4.3L / 4330cc
Bore & Stroke (in / mm)	4.015" x 4.921" / 102 x 125
Compression Ratio	15.5:1
Governor Type	Isochronous / Electronic
Frequency Regulation Steady State	+/- 0.25%
Frequency Regulation No-load to Full-load	Isochronous, Constant Speed
Air Filter Type	Dry
Limited Warranty	3 Years, 5,000 Hours

### Lubrication System

Type	Full Pressure
Oil Capacity (g / L)	4.75 / 18
Oil Filter (Quantity / Type)	1/Spin-On

### Cooling System

Radiator Type	Aluminum
Radiator Air Flow (m3/Hr)	18,000

### Sound Rating at 7 Meters, Lowest Side

No Load	72 dB(A)
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### Engine Crankcase Vent System

Engine Crankcase Vent System	Closed Crankcase Vent
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### 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)	32
Starter Motor Voltage (VDC)	12

### Exhaust System

Exhaust Manifold Type	Dry
Exhaust Flow at Rated Load (Kg/Hr)	710
Exhaust Temperature at Rated Load (F/C)	1256 / 680
Maximum Allowable Back Pressure (kPa G)	4.9 ± 1

### Fuel System

Fuel Type	Ultra-Low Sulfur Diesel
Fuel Injection Pump	Mechanical Fuel Inline Pump
Fuel Filter	1.0 liter Single bowl Spin-on

### Fuel Consumption

Optional Fuel Tank Capacity: 200 Gallons – 24 Hour Run Time

100% Load	7.90 GAL / HR
75% Load	5.90 GAL / HR
50% Load	4.09 GAL / HR

### Engine Output Deratings

Rated Temperature (°F / °C)	77 / 25
Rated Altitude	328 ft (100 m) Above Sea Level
Temperature Derate	1.5% for Each 10°F (5.6°C) Above Rated Temperature
Altitude Derate	2.5% for Each 1000 ft (305 m) Above Rated Altitude

## STANDARD CONTROLLER



### WILDCAT POWER GEN DeepSea Controller

- User-friendly control panel for troubleshooting
- Conveniently monitors diagnostic conditions, displays system fault codes and sets weekly exercise cycle
- Easy-to-read alpha-numeric scrolling display
- Single & 3 Phase generator applications
- UL recognized



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## ALTERNATOR SPECIFICATIONS

	Roughneck 75KW Single Phase Tier 3	Roughneck 100KW 3-Phase Tier 3	Roughneck 100KW 3-Phase Tier 3	Roughneck 100KW 3-Phase Tier 3
Model	RO0100D3A*XE	RO0100D3B*XE	RO0100D3C*XE	RO0100D3D*XE
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 (Hz)	60	60	60	60
Phase	1	3	3	3
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	MX341	MX341	MX341	MX341
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%
One Step Load Acceptance	100% of Rating	100% of Rating	100% of Rating	100% of Rating
Total Harmonic Distortion (THD), NL to FL	<5%	<5%	<5%	<5%
<ul style="list-style-type: none"><li>• Complete winding protection for non-harsh environment with relative humidity ≤95%. IP23 Protection</li><li>• Manufactured according to the following standards: ISO 3046, ISO 8528-1, ISO 8528-3, ISO 8528-5, IEC 60034-1, BS 5000-3</li></ul>				

## Weight & Dimensions

Assembled Weight (lbs / kg) 4700 LBS / 2132 KG

Overall Dimensions (in) 138.78" L x 45.52" W x 84.89" H 3525mm L x 1156mm W x 2156mm H

Need help? Visit [wildcatpowergen.com](http://wildcatpowergen.com)

Complete the web form and a local dealer will contact you to answer questions on our generators and accessories.

**620-500-5111**

**Never Lose Power Again  
With Wildcat Power Gen**