

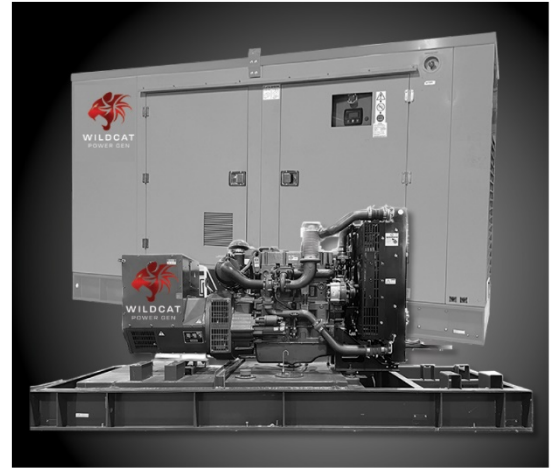


**WILDCAT**  
POWER GEN

**PROVIDING  
BETTER POWER**

## ROUGHNECK DIESEL: 30KW

The Roughneck generator was designed with rugged simplicity in mind: Three phase, open or enclosed packages that are designed for emergency applications but built with prime rated liquid-cooled engines that can run for extended periods of time during power outages.



### Durable Industrial Engine

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

### 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 20KW RO0020D3A*XE	120 / 240	1.0	1	60	125A	29 / 29	7.5	172	Tier 3	DeepSea
Roughneck Diesel 30KW RO0030D3B*XE	208 / 110	0.8	3	60	125A	30 / 37.5	7.5	172	Tier 3	DeepSea
Roughneck Diesel 30KW RO0030D3C*XE	240 / 120	0.8	3	60	100A	30 / 37.5	7.5	172	Tier 3	DeepSea
Roughneck Diesel 30KW RO0030d3D*XE	480 / 277	0.8	3	60	50A	30 / 37.5	7.5	172	Tier 3	DeepSea



**ENGINE SPECIFICATIONS**

**Engine**

Manufacturer	KOEL
Type	4R810NA Powertrain 4 Stroke, Naturally Aspirated
Speed (RPM)	1800
Cylinder Arrangement	Inline 4
Displacement (L / cc)	3.2L / 3240cc
Bore & Stroke (in / mm)	3.779" x 4.409" / 96 x 112
Compression Ratio	17.5:1
Governor Type	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 (qt / L)	12 / 11.5
Oil Filter (Quantity / Type)	1/Spin-On

**Cooling System**

Radiator Type	Aluminum
Fan Type	Pusher

**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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**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

**Electrical System**

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 (gal/hr)	37.8
Exhaust Temperature at Rated Load (°F / °C)	1,202 / 650
Maximum Allowable Back Pressure (in Hg / kPa)	1.968 / 6.7±1.0

**Fuel System**

Fuel Type	Ultra-Low Sulfur Diesel
Fuel Injection Pump	Mechanical Fuel Inline Pump
Fuel Filter	0.6 liter Single bowl Spin-on
Combustion System	Direct Injection

**Fuel Consumption**

Optional Fuel Tank Capacity: 70 Gallons – 24 Hour Run Time

Full Load:	2.59 GAL / HR
50% Load:	1.24 GAL / HR
No Load:	0.55 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



## ALTERNATOR SPECIFICATIONS

	Roughneck 20KW Single Phase Tier 3	Roughneck 30KW 3-Phase Tier 3	Roughneck 30KW 3-Phase Tier 3	Roughneck 30KW 3-Phase Tier 3
<b>Model</b>	RO0020D3A*XE	RO0030D3B*XE	RO0030D3C*XE	RO0030d3D*XE
<b>Alternator Model</b>	PI144H / S1L2-K	PI144H / S1L2-K	PI144H / S1L2-K	PI144H / S1L2-K
<b>Manufacturer</b>	Stamford	Stamford	Stamford	Stamford
<b>Type</b>	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead
<b>Frequency (Hz)</b>	60	60	60	60
<b>Phase</b>	1	3	3	3
<b>Winding Configuration</b>	Double Delta	Parallel Star	Series Delta	Series Star
<b>Exciter Type</b>	Self Exciter	Self Exciter	Self Exciter	Self Exciter
<b>Number of Poles</b>	4	4	4	4
<b>Voltage Regulator</b>	AS480	AS480	AS480	AS480
<b>Insulation Rating</b>	Class H	Class H	Class H	Class H
<b>Designed Temperature Rise Limit</b>	125 °C	125 °C	125 °C	125 °C
<b>Bearing (Quantity / Type)</b>	1/Sealed	1/Sealed	1/Sealed	1/Sealed
<b>Coupling</b>	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk
<b>Amortisseur Windings</b>	Full	Full	Full	Full
<b>Voltage Regulation, NL to FL</b>	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
<b>One Step Load Acceptance</b>	100% ofRating	100% ofRating	100% ofRating	100% ofRating
<b>Total Harmonic Distortion (THD), NL to FL</b>	<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)** 2761 LBS / 1253 KG

**Overall Dimensions (in)** 103.39" L x 43.55" W x 64.85" H      2626mm L x 1106mm W x 1647mm 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**