

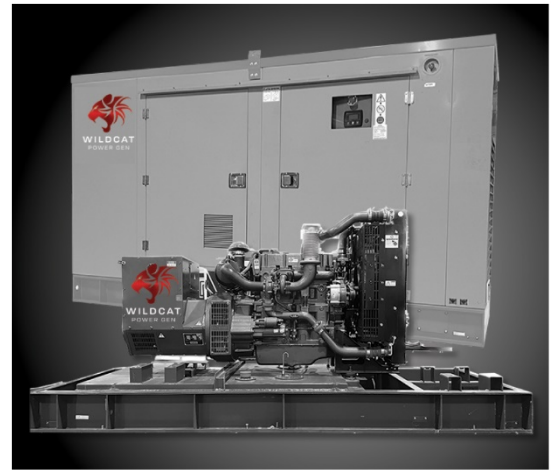


WILDCAT
POWER GEN

**PROVIDING
BETTER POWER**

ROUGHNECK DIESEL: 40KW

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 35KW RO0035D3A*XE	120 / 240	1.0	1	60	175	37.5 / 37.5	10.1	163	Tier 3	DeepSea
Roughneck Diesel 40KW RO0040D3B*XE	208 / 110	0.8	3	60	150	40 / 50	10.1	163	Tier 3	DeepSea
Roughneck Diesel 40KW RO0040D3C*XE	240 / 120	0.8	3	60	125	40 / 50	10.1	163	Tier 3	DeepSea
Roughneck Diesel 40KW RO0040D3D*XE	480 / 277	0.8	3	60	63	40 / 50	10.1	163	Tier 3	DeepSea



ENGINE SPECIFICATIONS

Engine

Manufacturer	KOEL
Type	4R810TA2 Powertrain 4 Stroke, Turbo Charged & Charge Air Cooled
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	16.5:1
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 (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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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)	70
Exhaust Temperature at Rated Load (°F / °C)	1,256 / 680
Maximum Allowable Back Pressure (in Hg / kPa)	2.95 ±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: 140 Gallons – 24 Hour Run Time	
Full Load:	3.62 GAL / HR
50% Load:	1.90 GAL / HR
No Load:	0.85 GAL / HR

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

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 35KW Single Phase Tier 3	Roughneck 40KW 3-Phase Tier 3	Roughneck 40KW 3-Phase Tier 3	Roughneck 40KW 3-Phase Tier 3
Model	RO0035D3A*XE	RO0040D3B*XE	RO0040D3C*XE	RO0040D3D*XE
Alternator Model	UCI224D	UCI224D	UCI224D	UCI224D
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	MX341UL	MX341UL	MX341UL	MX341UL
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%

- 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

Weight & Dimensions

Assembled Weight (lbs / kg) 3207 LBS / 1455 KG

Overall Dimensions (in / mm) 108.78" L x 41.78" W x 71.34" H 2763mm L x 1061mm W x 1812mm H

Need help? Visit 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**