



WILDCAT

POWER GEN

PROVIDING BETTER POWER

ROUGHNECK NG-LPG: 45KW

The Roughneck generator was designed with rugged simplicity in mind. Choose from options on phase, voltage, fuel and enclosure packages that are all designed to run for extended periods of time with prime rated liquid cooled engine platforms.



Durable Industrial Engine

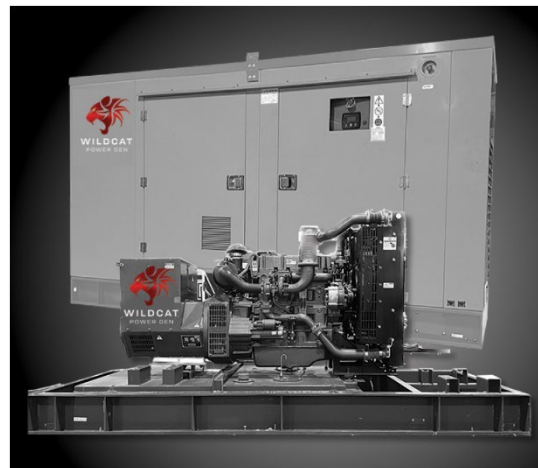
- Usually reserved for industrial applications, the Roughneck's power plant is a premier industrial fixed speed (1,800 RPM) engine built to provide strong, reliable power without giving up quiet operation and engine longevity.

Quality Clean Power

- Voltage regulation ensures that electronics are safely powered with less 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	BHP	Voltage Regulation	Controller
Roughneck NG 45KW RO0045NGA*XP	120 / 240	1.0	1	60	200A	47.5 / 47.5	75	Digital	Deepsea
Roughneck LPG 45KW RO0045PLA*XP	120 / 240	1.0	1	60	200A	42.5 / 42.5	68	Digital	Deepsea
Roughneck NG 45KW RO0045NG**XP	208 / 120 240 / 120 480 / 277	0.8	3	60	200A 175A 100A	50 / 62.5	75	Digital	Deepsea
Roughneck LPG 45KW RO0045PL**XP	208 / 120 240 / 120 480 / 277	0.8	3	60	175A 150A 75A	45 / 56	68	Digital	Deepsea



WILDCAT
POWER GEN

PROVIDING
BETTER POWER

ROUGHNECK

ENGINE SPECIFICATIONS

Engine

Manufacturer	ARROW
Type	3.12L Industrial Powertrain 4 Cycle, Turbo Aftercooled
Speed (RPM)	1800
Cylinder Arrangement	3 Cylinder In-Line
Displacement (L)	3.12L
Bore & Stroke (in / mm)	4.1" x 4.7" / 105 x 120
Compression Ratio	9:1
Governor Type	Electronic
Frequency Regulation Steady State	+/-0.25%
Frequency Regulation No-load to Full-load	Isochronous
Air Filter Type	Dry
Limited Warranty	3 Years, 5,000 Hours

Lubrication System

Type	Full Pressure
Oil Capacity (qt / L)	8.00 / 7.57
Oil Filter (Quantity / Type)	1 / Spin-On

Cooling System

Radiator Type	Aluminum
Fan Type	Pusher

Sound Rating at 7 Meters, Lowest Side

No Load	70 dB(A)
---------	----------

Air Induction System

Air Filter	Dry Type
------------	----------

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)	35
Starter Motor Voltage (VDC)	12

Exhaust System

Exhaust Manifold Type	Dry
Exhaust Temperature at Rated Load (°F / °C)	1396 / 757

Fuel System

Fuel Type	LPV or NG
Fuel Supply Line Inlet	1 1/4" NPT
Recommended Fuel, Lower Heating Value Minimum (BTU/ft ³ / MJ/m ³)	NG – 700-1600 LPV – 2338
Fuel Supply Pressure (in H ₂ O / mbar)	8-16 / 20-40

Fuel Consumption

BSFC	Full Load	50% Load	No Load
Pipeline NG	10.6 CFM	6.3 CFM	2.2 CFM
LPG	6.8 GPH	4.31 GPH	1.5 GPH

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	1200 ft (366 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



WILDCAT
POWER GEN

PROVIDING
BETTER POWER

ROUGHNECK

ALTERNATOR SPECIFICATIONS

	Roughneck 40KW Single Phase NG-LPG	Roughneck 45KW 3-Phase NG-LPG	Roughneck 45KW 3-Phase NG-LPG	Roughneck 45KW 3-Phase NG-LPG
Model	RO0045**A*XP	RO0045**B*XP	RO0045**C*XP	RO0045**D*XP
Alternator Model	UC224F / UC274D	UC224F	UC224F	UC224F
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%

- 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) 3353 LBS / 1512 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**