

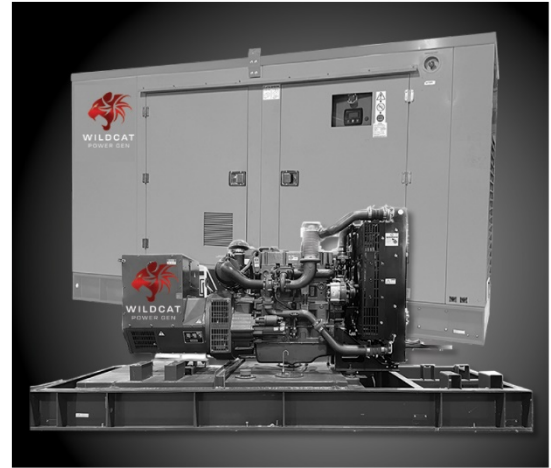


WILDCAT
POWER GEN

**PROVIDING
BETTER POWER**

ROUGHNECK NG-LPG: 30KW

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 (BTU/FT ³)	Fuel Flow (GPH)	Voltage Regulation	Controller
Roughneck NG 20KW RO0020NGA*XP	120 / 240	1.0	1	60	80A	20 / 24	38 / 42	3.5	Digital	Deepsea
Roughneck LPG 20KW RO0020PLA*XP	120 / 240	1.0	1	60	80A	20 / 24	42 / 46	3.5	Digital	Deepsea
Roughneck NG 30KW RO0030NG**XP	208 / 110 240 / 120 480 / 277	1.0	3	60	100A 90A 45A	30 / 37	38 / 42	4.5	Digital	Deepsea
Roughneck LPG 30KW RO0030PL**XP	208 / 110 240 / 120 480 / 277	1.0	3	60	100A 90A 45A	30 / 37	42 / 46	4.5	Digital	Deepsea



ENGINE SPECIFICATIONS

Engine

Manufacturer	ARROW
Type	3.12L Industrial Powertrain 4 Cycle, Naturally Aspirated
Speed (RPM)	900 - 2200
Cylinder Arrangement	2 valves per cylinder
Displacement (L)	3.12
Bore & Stroke (in / mm)	4.1" x 4.7" / 105 x 120
Compression Ratio	9:1
Governor Type	Electronic
Frequency Regulation Steady State	+/-0.5%
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

Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/ sec)	3120 / 13.1
Water Pump Type	Centrifugal

Sound Rating at 7 Meters, Lowest Side

No Load	70 dB(A)
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Air Induction System

Air Filter	Dry Type
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Electrical System

Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (A)	625
Battery Charging Alternator	
Ground (Negative/Positive)	Negative
Voltage (VDC)	12
Amperage (A)	70
Starter Motor Voltage (VDC)	12

Exhaust System

Exhaust Manifold Type	Dry
Exhaust Temperature at Rated Load (°F / °C)	1099 / 593

Fuel System

Fuel Type	LPV or NG
Fuel Supply Line Inlet	1 ¼" NPT
Recommended Fuel, Lower Heating Value Minimum (BTU/ft³)	NG - 700-1600 LPV - 2338
Fuel Supply Pressure (in H ₂ O / mbar)	7-11 / 17-28

Fuel Consumption

BSFC	Full Load	50% Load	No Load
Pipeline NG	4.5 GPH	3.5 GPH	2.6 GPH
LPG	4.7 GPH	3.7 GPH	2.7 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	1500 ft (457 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 NG-LPG	Roughneck 30KW 3-Phase NG-LPG	Roughneck 30KW 3-Phase NG-LPG	Roughneck 30KW 3-Phase NG-LPG
Model	RO0020**A*XP	RO0030**B*XP	RO0030**C*XP	RO0030**D*XP
Alternator Model	PI144H	PI144H	PI144H	PI144H
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
Voltage Regulator	4	4	4	4
Insulation Rating	AS480	AS480	AS480	AS480
Designed Temperature Rise Limit	Class H	Class H	Class H	Class H
Bearing (Quantity / Type)	125 °C	125 °C	125 °C	125 °C
Coupling	1/Sealed	1/Sealed	1/Sealed	1/Sealed
Amortisseur Windings	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk
Voltage Regulation, NL to FL	Full	Full	Full	Full
One Step Load Acceptance	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
Total Harmonic Distortion (THD), NL to FL	100% ofRating	100% ofRating	100% ofRating	100% ofRating
Number of Poles	<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) 2761 LBS / 1253 KG

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