



ROUGHNECK PRIME GASEOUS: 45KW

The **WILDCAT ROUGHNECK** 45KW prime power stationary gaseous generator is commercial grade and designed to run for extended periods of time as needed.

Durable Industrial Engine

Usually reserved for industrial applications, the 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.

Digital Controls

Designed for single genset applications, the 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.

Quality Clean Power

Voltage regulation ensures that electronics are safely powered with less 5% total harmonic distortion (THD) at no load.

Industrial Class Alternator

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

NFPA-110

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

Easy To Service

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



Engine Make & Model

Arrow Engine Company KP3TA

Alternator Make & Model

Stamford UC224F

Controller Make & Model

Deep Sea Electronics DSE 61XX

Assembled Weight (lb / kg)

3,353 lbs 1,512 kgs

Overall Dimensions (in / mm)

109L x 42W x 71H 2763L x 1061W x 1812H

GENERATOR SET RATINGS

Model	Voltage	Power Factor	Phase	Hertz	Circuit Breaker Amps	KW	KVA	BHP	Duty Cycle	Certifications
Roughneck NG 45 RO0045NGA*XP	120 / 240	1.0	1	60	200	47	47	75	Prime / Continuous Stationary	EPA Prime Gaseous
Roughneck LP 45 RO0045PLA*XP	120 / 240	1.0	1	60	200	42	42	68	Prime / Continuous Stationary	EPA Prime Gaseous
Roughneck NG 45 RO0045NG**XP	208 / 120 240 / 120 480 / 277	0.8	3	60	200 175 100	50	62	75	Prime / Continuous Stationary	EPA Prime Gaseous
Roughneck LP 45 RO0045PL**XP	208 / 120 240 / 120 480 / 277	0.8	3	60	175 150 75	45	56	68	Prime / Continuous Stationary	EPA Prime Gaseous

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ENGINE SPECIFICATIONS

Engine

Manufacturer	ARROW
Type	KP3TA Powertrain, 4 Cycle, Turbo Aftercooled
Speed (RPM)	1800
Cylinder Arrangement	3 Cylinder In-Line
Displacement (L / cc)	3.12L / 3120cc
Bore & Stroke (in / mm)	4.10 x 4.70 / 105 x 120
Compression Ratio	9 : 1
Governor Type	Electronic
Frequency Regulation Steady Rate	0.5% (+/-)
Frequency Regulation	Isochronous
No Load To Full Load	
Air Filter Type	Dry
Limited Warranty	3 Year, 5,000 Hour

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

ISO 8528-10	Level II
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Air Intake System

Air Filter	Dry Type
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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 1,000 ft (305m) Above Rated Altitude

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 Temp at Rated Load (°F / °C)	1396° F / 757° C

Fuel System

Fuel Type	Propane or Natural Gas
Fuel Supply Line Inlet	1 1/4" NPT
Fuel Supply Pressure (H2O / mbar)	8 - 16 / 20 - 40

Fuel Consumption

BSFC	Full Load	50% Load	No Load
Pipeline NG	10.60 CFM	6.30 CFM	2.20 CFM
Propane	6.80 GPH	4.31 GPH	1.50 GPH





ALTERNATOR SPECIFICATIONS

Wildcat 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 (Hertz)	60	60	60	60
Phase Voltage	1-Phase 120 / 240	3-Phase 208 / 120	3-Phase 240 / 120	3-Phase 480 / 277
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% (+/-)
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

CONTROLLER SPECIFICATIONS

Manufacturer	Deep Sea Electronics
Model	DSE 61XX
Display	Easy To Read Alpha-Numeric Scrolling Display
Monitoring	Diagnostic Conditions, Fault Codes, Weekly Exercise Cycle



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