



## ROUGHNECK PRIME GASEOUS: 60KW

The **WILDCAT ROUGHNECK** 60KW 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 KP6

### Alternator Make & Model

Stamford UC224F

### Controller Make & Model

Deep Sea Electronics DSE 61XX

### Assembled Weight (lb / kg)

4,713 lbs 2,137 kgs

### Overall Dimensions (in / mm)

139L x 46W x 85H 3525L x 1156W x 2156H

## GENERATOR SET RATINGS

| Model                                     | Voltage                             | Power Factor | Phase | Hertz | Circuit Breaker Amps | KW | KVA | BHP | Duty Cycle                    | Certifications    |
|-------------------------------------------|-------------------------------------|--------------|-------|-------|----------------------|----|-----|-----|-------------------------------|-------------------|
| <b>Roughneck</b><br>NG 60<br>RO0060NGA*XP | 120 / 240                           | 1.0          | 1     | 60    | 225                  | 54 | 54  | 85  | Prime / Continuous Stationary | EPA Prime Gaseous |
| <b>Roughneck</b><br>LP 60<br>RO0060PLA*XP | 120 / 240                           | 1.0          | 1     | 60    | 250                  | 60 | 60  | 95  | Prime / Continuous Stationary | EPA Prime Gaseous |
| <b>Roughneck</b><br>NG 60<br>RO0060NG**XP | 208 / 120<br>240 / 120<br>480 / 277 | 0.8          | 3     | 60    | 225<br>200<br>100    | 57 | 71  | 85  | Prime / Continuous Stationary | EPA Prime Gaseous |
| <b>Roughneck</b><br>LP 60<br>RO0060PL**XP | 208 / 120<br>240 / 120<br>480 / 277 | 0.8          | 3     | 60    | 250<br>225<br>125    | 63 | 80  | 95  | Prime / Continuous Stationary | EPA Prime Gaseous |

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## ENGINE SPECIFICATIONS

### Engine

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| Manufacturer                     | ARROW                                           |
| Type                             | KP6 Powertrain, 4 Cycle,<br>Natrually Aspirated |
| Speed (RPM)                      | 1800                                            |
| Cylinder Arrangement             | Inline 6                                        |
| Displacement (L / cc)            | 6.3L / 6300cc                                   |
| Bore & Stroke (in / mm)          | 4.10 x 4.90 / 105 x 125                         |
| 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)        | 12.00 / 11.40 |
| 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 |
|-------------|----------|

### Air Intake System

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

### Engine Output Deratings

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| Rated Temperature (°F / °C) | 77 / 25                                               |
| Rated Altitude              | 1200 ft (366 m) above sea<br>level                    |
| Temperature Derate          | 1.5% for Each 10°F (5.6°C)<br>Above Rated Temperature |
| Altitude Derate             | 2.5% for Each 1,000 ft<br>(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) | 1300° F / 704° 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 | 14.10 CFM | 8.50 CFM | 3.90 CFM |
| Propane     | 8.70 GPH  | 5.50 GPH | 2.50 GPH |





## ALTERNATOR SPECIFICATIONS

| Wildcat Model                            | RO0060**A*XP         | RO0060**B*XP         | RO0060**C*XP         | RO0060**D*XP         |
|------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Alternator Model                         | UC224F / UC274D      | UC224F / UC274D      | UC224F / UC274D      | UC224F / UC274D      |
| 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<br>120 / 240 | 3-Phase<br>208 / 120 | 3-Phase<br>240 / 120 | 3-Phase<br>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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