



ROUGHNECK PRIME GASEOUS: 400KW

The **WILDCAT ROUGHNECK** 400KW 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

Mesa Solutions GV22PU

Alternator Make & Model

Stamford HC4

Controller Make & Model

Deep Sea Electronics DSE 86XX/73XX

Assembled Weight (lb / kg)

19,800 lbs 9,000 kgs

Overall Dimensions (in / mm)

120L x 96W x 144H 3050L x 2430W x 3660H

GENERATOR SET RATINGS

Model	Voltage	Power Factor	Phase	Hertz	Circuit Breaker Amps	KW	KVA	BHP	Duty Cycle	Certifications
Roughneck NG 400KW RO0400NGDSXP	480 / 277	0.8	3	60	800	390	487	671	Prime / Continuous Stationary	EPA Prime Gaseous
Roughneck LP 400KW RO0400PVDSXP	480 / 277	0.8	3	60	800	310	387	671	Prime / Continuous Stationary	EPA Prime Gaseous

ENGINE SPECIFICATIONS

Engine

Manufacturer	Mesa Solutions
Type	GV22PU, 4 Cycle, Turbo Charged & Charge Air Cooled
Speed (RPM)	1800
Cylinder Arrangement	V 12
Displacement (L / cc)	21.92L / 21927cc
Bore & Stroke (in / mm)	5.00 x 5.60 / 128 x 142
Compression Ratio	10.5 : 1
Governor Type	Electronic
Frequency Regulation Steady Rate	0.25% (+/-)
Frequency Regulation	Isochronous, Constant Speed
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)	42.25 / 40.00
Oil Filter (Type)	Cartridge Type

Cooling System

Radiator Fan Type	Pusher
Radiator Air Flow (m3/hr)	30,100

Sound Rating

ISO 8528-10	Level II
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Engine Crankcase Vent System

Engine Crankcase Vent System	Closed Crankcase Vent
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Engine Output Deratings

Rated Temperature (°F / °C)	77 / 25
Rated Altitude	328ft (100m) 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	2
Battery Voltage (VDC)	24
Battery CCA (A)	900
Battery Charging Alternator	
Ground (Negative / Positive)	Negative
Voltage (VDC)	24
Amperage (A)	50
Starter Motor Voltage (VDC)	24

Exhaust System

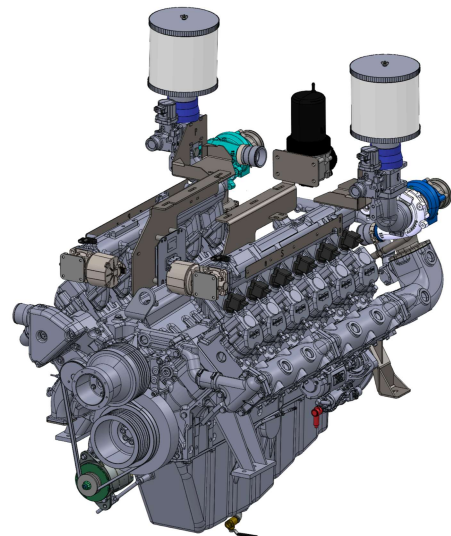
Exhaust Manifold Type	Dry
Exhaust Flow At Rated Load (kg/hr)	1,780
Exhaust Temp at Rated Load (°F / °C)	964° F / 518° C
Maximum Allowable Back Pressure	14+/- 1 kPa

Fuel System

Fuel Type	Natural Gas / Propane Vapor
Fuel Supply Line Inlet	2" NPT
Fuel Supply Pressure	8-16 Inch H2O

Fuel Consumption

GV22PU	100% Load	75% Load	50% Load
Pipeline NG	84.00 CFM	66.00 CFM	49.00 CFM





ALTERNATOR SPECIFICATIONS

Wildcat Model	RO0400**DSXP
Alternator Model	HC4
Manufacturer	Stamford
Type	Brushless, 12- Lead
Frequency (Hertz)	60
Phase Voltage	3-Phase 480 / 277
Winding Configuration	Series Star
Exciter Type	Self Exciter
Number of Poles	4
Voltage Regulator	MX341
Insulation Rating	Class H
Designed Temperature Rise Limit	125 °C
Bearing (Quantity / Type)	1 / Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full
Voltage Regulation, NL to FL	1.0% (+/-)
Total Harmonic Distortion (THD) NL to FL	< 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 86XX/73XX
Display	Easy To Read Alpha-Numeric Scrolling Display
Monitoring	Diagnostic Conditions, Fault Codes, Weekly Exercise Cycle



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