

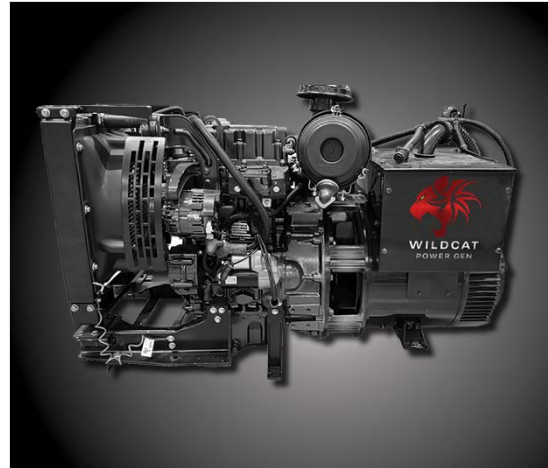


# WILDCAT POWER GEN

ENVIRONMENTALLY-SAFE  
ENGINE SOLUTIONS™

## FRONTIER DIESEL: 10KW-15KW

The Frontier generator was designed with rugged simplicity in mind. Single phase, open skid packages designed to run for extended periods of time with prime rated liquid cooled engine platforms.



### Durable Industrial Engine

- Usually reserved for industrial applications, the Frontier'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 Frontier 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 Frontier'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 Frontier'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	Hz	Circuit Breaker Amps	kW / kVA	BMEP (Bar)	BSFC (g/kW*h)	Emission Compliance	Controller
Frontier Diesel 10KW	120/240	1.0	1	60	42	11.5/14	7.2	168	Tier 4F	DeepSea
Frontier Diesel 15KW	120/240	1.0	1	60	63	15.3/19	7.2	175	Tier 4F	DeepSea



## ENGINE SPECIFICATIONS

### Engine

Manufacturer	KOEL
Type	R550 Series Industrial Powertrain 4 Cycle, Naturally Aspirated
Speed (RPM)	1800
Cylinder Arrangement	Inline 2 / Inline 3
Displacement (L)	1.1L / 1.6L
Bore & Stroke (in / mm)	3.385" x 3.7" / 86 x 94
Compression Ratio	19.7:1
Governor Type	Electronic
Frequency Regulation Steady State	+/-0.5%
Frequency Regulation No-load to Full-load	Isochronous, Constant Speed
Air Filter Type	Dry
Limited Warranty	3 Years, 5,000 Hours

### Lubrication System

Type	Full Pressure
Oil Capacity (qt / L)	3.1 / 2.9
Oil Filter (Quantity / Type)	1/Spin-On

### Cooling System

Radiator Type	Horizontal Copper Alloy
Fan Type	Pusher

### Sound Rating at 7 Meters, Lowest Side

No Load	78 dB(A)
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### Engine Crankcase Vent System

Engine Crankcase Vent System	Closed Crankcase Vent
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### Electrical System

Ignition System	Coil On Plug
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 Flow at Rated Load (Kg/Hr)	65
Exhaust Temperature at Rated Load (°F / °C)	1,202 / 650
Maximum Allowable Back Pressure (in Hg / kPa)	3.3±1.0

### Fuel System

Fuel Type	Ultra-Low Sulfur Diesel
Fuel Injection Pump	Mechanical Fuel Injection Pump
Fuel Filter	0.6 liter Single bowl Spin-on

### Fuel Consumption

	Full Load	1/2 Load	No Load
2R550	0.70 GAL / HR	0.39 GAL / HR	0.19 GAL / HR
3R550	1.09 GAL / HR	0.61 GAL / HR	0.31 GAL / HR

## STANDARD CONTROLLER



### WILDCAT POWER GEN Controller for Single-Phase

- 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-Phase generator application
- UL recognized

### Engine Output Deratings

Rated Temperature (°F / °C)	185 / 85
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

	1Phase	1Phase
<b>Model</b>	FR0010D4AOXP	FR0015D4AOXP
<b>Alternator Model</b>	TAL042E	TAL042E
<b>Manufacturer</b>	Leroy Somer	Leroy Somer
<b>Type</b>	Brushless, 12-Lead	Brushless, 12-Lead
<b>Frequency (Hz)</b>	60	60
<b>Phase</b>	1	1
<b>Alternator Configuration</b>	Double Delta	Double Delta
<b>Exciter Type</b>	Shunt	Shunt
<b>Number of Poles</b>	4	4
<b>Voltage Regulator</b>	R120	R120
<b>Insulation Rating</b>	Class H	Class H
<b>Designed Temperature Rise Limit</b>	125°C	125°C
<b>Bearing (Quantity / Type)</b>	1/Sealed	1/Sealed
<b>Coupling</b>	Flexible Disk	Flexible Disk
<b>Amortisseur Windings</b>	Full	Full
<b>Voltage Regulation, NL to FL</b>	+/- 1.0%	+/- 1.0%
<b>One Step Load Acceptance</b>	100% of Rating	100% of Rating
<b>Total Harmonic Distortion (THD), NL to FL</b>	<3.5%	<3.5%
<ul style="list-style-type: none"> <li>• Complete winding protection for non-harsh environment with relative humidity ≤95%. IP23 Protection</li> </ul>	<ul style="list-style-type: none"> <li>• Manufactured according to the following standards: IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA C22.2 n°100-14 and UL 1446.</li> </ul>	

## Weight & Dimensions

<b>Assembled Weight (lbs / kg)</b>	10KW: 850 LBS / 385 KG	15KW: 1,000 LBS / 455 KG
<b>Overall Dimensions (in)</b>	10KW: 68" L x 27.5" W x 41.5" H	15KW: 71.75" L x 30.75" W x 41.25" H

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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**