

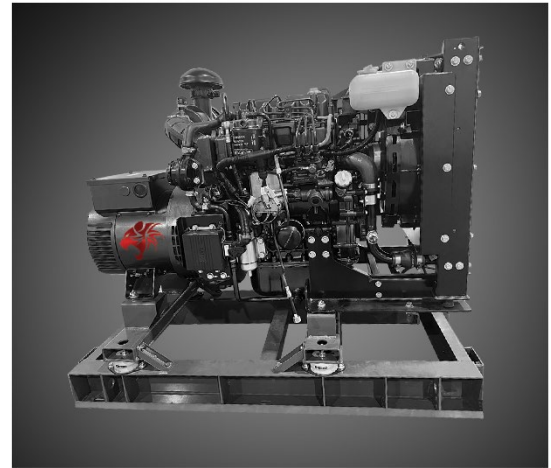


WILDCAT
POWER GEN

PROVIDING
BETTER POWER

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.

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 | BMEP (Bar) | BSFC (g/hp*hr) | Emission Compliance | Controller |
|--------------------------------------|---------|--------------|-------|-------|----------------------|-------------|------------|----------------|---------------------|------------|
| Frontier Diesel 10KW FR0010D4AOXP | 120/240 | 1.0 | 1 | 60 | 40 | 9.5 / 9.5 | 7.2 | 168 | Tier 4F | DeepSea |
| Frontier Diesel 15KW FR0015D4AOXP | 120/240 | 1.0 | 1 | 60 | 63 | 14.3 / 14.3 | 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 / 1.65L |
| Bore & Stroke (in / mm) | 3.385" x 3.7" / 86 x 94 |
| Compression Ratio | 19.7:1 |
| Governor Type | Electronic |
| Frequency Regulation Steady State | +/-0.25% |
| 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) | 3.49 / 3.30 (2R550) 6.23 / 5.95 (3R550) |
| Oil Filter (Quantity / Type) | 1/Spin-On |

Cooling System

| | |
|---------------|-------------------------|
| Radiator Type | Horizontal Copper Alloy |
| Fan Type | Pusher |

Engine Crankcase Vent System

| | |
|------------------------------|-----------------------|
| Engine Crankcase Vent System | Closed Crankcase Vent |
|------------------------------|-----------------------|

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

Electrical System

| | |
|-----------------------------|----------------------|
| Ignition System | Compression Ignition |
| Battery Quantity | 1 |
| Battery Voltage (VDC) | 12 |
| Battery CCA (A) | 900 |
| Battery Charging Alternator | |
| Ground (Negative/Positive) | Negative |
| Voltage (VDC) | 12 |
| Amperage (A) | 40 |
| Starter Motor Voltage (VDC) | 12 |

Exhaust System

| | |
|---|-------------|
| Exhaust Manifold Type | Dry |
| Exhaust Flow at Rated Load (Kg/Hr) | 65 / 97 |
| 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 Tank Not Included | |

Fuel Consumption

| | Full Load | 1/2 Load | No Load |
|-------|---------------|---------------|---------------|
| 2R550 | 0.84 GAL / HR | 0.47 GAL / HR | 0.19 GAL / HR |
| 3R550 | 1.09 GAL / HR | 0.61 GAL / HR | 0.31 GAL / HR |

Engine Output Deratings

| | |
|-----------------------------|--|
| Rated Temperature (°F / °C) | 77 / 25 |
| Rated Altitude | 328 ft (100 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

| | Frontier 10KW Single Phase Tier 4F | Frontier 15KW Single Phase Tier 4F |
|--|---------------------------------------|--|
| Model | FR0010D4AOXP | FR0015D4AOXP |
| Alternator Model | LSAP 40E | LSAP 40E/H |
| Manufacturer | Leroy Somer | Leroy Somer |
| Type | Brushless, 12-Lead | Brushless, 12-Lead |
| Frequency (Hz) | 60 | 60 |
| Phase | 1 | 1 |
| Winding Configuration | Double Delta | Double Delta |
| Exciter Type | Shunt | Shunt |
| Number of Poles | 4 | 4 |
| Voltage Regulator | R120 | R120 |
| Insulation Rating | Class H | Class H |
| Designed Temperature Rise Limit | 125 °C | 125 °C |
| Bearing (Quantity / Type) | 1/Sealed | 1/Sealed |
| Coupling | Flexible Disk | Flexible Disk |
| Amortisseur Windings | Full | Full |
| Voltage Regulation, NL to FL | +/- 1.0% | +/- 1.0% |
| One Step Load Acceptance | 100% of Rating | 100% of Rating |
| Total Harmonic Distortion (THD), NL to FL | <3.5% | <3.5% |
| <p>• Complete winding protection for non-harsh environment with relative humidity ≤60%. Space heater required for ≤95%. IP23 Protection.</p> | | <p>• Manufactured according to the following standards: ISO 3046, ISO 8528-1, ISO 8528-5, IEC 60034-1, IS: 13364</p> |

Weight & Dimensions

| | | |
|------------------------------------|-------------------------------|-------------------------------|
| Assembled Weight (lbs / kg) | 10KW: 890 LBS / 404 KG | 15KW: 890 LBS / 404 KG |
| Overall Dimensions (in) | 10KW: 45" L x 24" W x 39.4" H | 15KW: 51" L x 24" W x 41.5" 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**