



# WILDCAT

POWER GEN

## PROVIDING BETTER POWER

## PATRIOT DIESEL: 70KW PRIME MOBILE APPLICATION

The Patriot generator was designed with rugged simplicity in mind. DOT trailer, voltage selection switch, integrated quick connects, and series 16 receptacles enhances its portability and user-friendly interfaces that are designed for Mobile Prime Power applications.



### Durable Industrial Engine

- Planned for emergency applications but built for industrial applications, the Patriot's power plant is a premier industrial fixed speed (1,800 RPM) engine built to provide strong, reliable power without sacrificing engine longevity.

### Quality Clean Power

- Voltage regulation ensures that electronics are safely powered with less 2.5% total harmonic distortion (THD) at no load.

### Voltage selection

- Wildcat designed the Patriot to for true mobile applications and therefore it comes built in with a voltage selectable switch to cater to large section of electrical loads.

### Digital Controls

- Designed for single genset applications, the Patriot'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 Patriot'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	Hertz	Amps	kW / kVA	BSFC (g/hp*hr)	Emission Compliance	Controller
Patriot Diesel 70KW PA0070D4KS*M	120/240	1	1	60	263A	63/63	156	Tier 4	DeepSea 6110
Patriot Diesel 70KW PA0070D4KS*M	208/110	0.8	3	60	241A	70/87	156	Tier 4	DeepSea 6110
Patriot Diesel 70KW PA0070D4KS*M	240/120	0.8	3	60	209A	70/87	156	Tier 4	DeepSea 6110
Patriot Diesel 70KW PA0070D4KS*M	480/277	0.8	3	60	105A	70/87	156	Tier 4	DeepSea 6110



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## ENGINE SPECIFICATIONS

### Engine

Manufacturer	Hyundai
Type	DM03PP 4 Cycle, Turbo Charged & Charge Air Cooled
Speed (RPM)	1800
Cylinder Arrangement	Inline 4
Displacement (L / cc)	3.4L / 3409cc
Bore & Stroke (in / mm)	3.85" x 4.45" / 98 x 113
Compression Ratio	18:1
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 (gal / L)	3.3 / 12.6
Oil Filter (Quantity / Type)	2, Spin-on

### Cooling System

Radiator Type	Aluminum
Radiator Air Flow (m3/Hr)	13,500

### Sound Rating at 7 Meters, Lowest Side

No Load	70 dB(A)
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### Engine Crankcase Vent System

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

Starting Arrangement	12V Electric
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (A)	900
Battery Charging Alternator	
Ground (Negative/Positive)	Negative
Voltage (VDC)	12
Amperage (A)	50
Starter Motor Voltage (VDC)	12

### Exhaust System

Exhaust Manifold Type	Dry
Exhaust Temperature at Rated Load (F/C)	1382 / 750
Maximum Allowable Back Pressure (kPa G)	5.9 ± 1

### Fuel System

Fuel Type	Ultra-Low Sulfur Diesel
Fuel Injection Pump	Common Rail Fuel Injection
Fuel Filter	1.0 liter Single bowl Spin-on

### Fuel Consumption

Unit comes integrated with fuel tank with 24 Hours Run Time

100% Load	5.5 GAL / HR
75% Load	4.1 GAL / HR
50% Load	2.8 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

## STANDARD CONTROLLER



### WILDCAT POWER GEN DeepSea Controller 6110

- 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 & 3 Phase generator applications
- UL recognized



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## ALTERNATOR SPECIFICATIONS

	Patriot 70KW Single Phase	Patriot 70KW 3-Phase	Patriot 70KW 3-Phase	Patriot 70KW 3-Phase
Model	PA0070D4KS*M	PA0070D4KS*M	PA0070D4KS*M	PA0070D4KS*M
Alternator Model	UC1224G	UC1224G	UC1224G	UC1224G
Manufacturer	Stamford	Stamford	Stamford	Stamford
Type	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead
Frequency (Hz)	60	60	60	60
Phase	3	3	3	3
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%
One Step Load Acceptance	90% of Rating	90% of Rating	90% of Rating	90% of Rating
Total Harmonic Distortion (THD), NL to FL	<5%	<5%	<5%	<5%
<ul style="list-style-type: none"><li>• Complete winding protection for non-harsh environment with relative humidity ≤95%. IP23 Protection</li><li>• Manufactured according to the following standards: ISO 3046, ISO 8528-1, ISO 8528-3, ISO 8528-5, IEC 60034-1, BS 5000-3</li></ul>				

## Weight & Dimensions

**Assembled Weight (lbs / kg)** 6393 LBS / 2900 KG

**Overall Dimensions (in / mm) with Trailer** 178 (L) x 69 (W) x 99 (H) 4521 (L) x 1753 (W) x 2515 (H)

Need help? Visit [wildcatpowergen.com](http://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**