

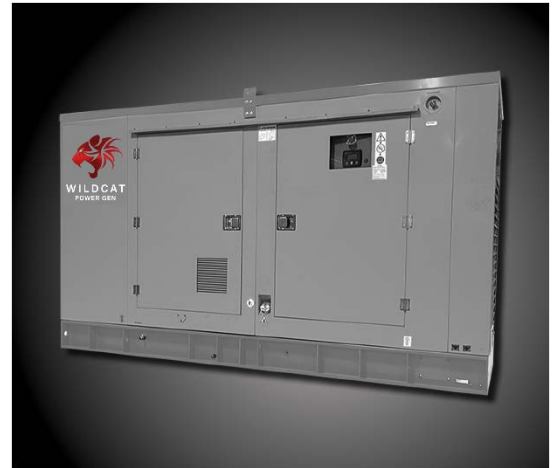


WILDCAT
POWER GEN

**PROVIDING
BETTER POWER**

SENTINEL DIESEL: 30KW

The UL2200 listed Sentinel generator was designed with rugged simplicity in mind: Three phase, open or enclosed packages that are designed for emergency applications but built with prime rated liquid-cooled engines that can run for extended periods of time during power outages.



Durable Industrial Engine

- Usually reserved for industrial applications, the Sentinel'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 Sentinel 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 Sentinel'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 Sentinel'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	Circuit Breaker Amps	kW / kVA	BMEP (Bar)	BSFC (g/hp*hr)	Emission Compliance	Controller
Sentinel Diesel 20KW SE0020D3ASXE	120 / 240	1.0	1	60	80A	20 / 20	7.5	172	Tier 3	DeepSea
Sentinel Diesel 30KW SE0030D3BSXE	208 / 110	0.8	3	60	80A	30 / 36	7.5	172	Tier 3	DeepSea
Sentinel Diesel 30KW SE0030D3CSXE	240 / 120	0.8	3	60	100A 90A 45A	30 / 36	7.5	172	Tier 3	DeepSea
Sentinel Diesel 30KW SE0030D3DSXE	480 / 277	0.8	3	60	100A 90A 45A	30 / 36	7.5	172	Tier 3	DeepSea



ENGINE SPECIFICATIONS

Engine

Manufacturer	KOEL
Type	4R810NA Powertrain 4 Stroke, Naturally Aspirated
Speed (RPM)	1800
Cylinder Arrangement	Inline 4
Displacement (L / cc)	3.2L / 3240cc
Bore & Stroke (in / mm)	3.779" x 4.409" / 96 x 112
Compression Ratio	17.5:1
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)	12 / 11.5
Oil Filter (Quantity / Type)	1/Spin-On

Cooling System

Radiator Type	Aluminum
Fan Type	Pusher

Sound Rating at 7 Meters, Lowest Side

No Load	72 dB(A)
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Engine Crankcase Vent System

Engine Crankcase Vent System	Closed Crankcase Vent
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STANDARD CONTROLLER



WILDCAT POWER GEN DeepSea Controller

- 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

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)	32
Starter Motor Voltage (VDC)	12

Exhaust System

Exhaust Manifold Type	Dry
Exhaust Flow at Rated Load (gal/hr)	37.8
Exhaust Temperature at Rated Load (°F / °C)	1,202 / 650
Maximum Allowable Back Pressure (in Hg / kPa)	1.968 / 6.7±1.0

Fuel System

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

Fuel Consumption

Full Load:	2.59 GAL / HR
50% Load:	1.24 GAL / HR
No Load:	0.55 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

	Sentinel 20KW Single Phase Tier 3	Sentinel 30KW 3-Phase Tier 3	Sentinel 30KW 3-Phase Tier 3	Sentinel 30KW 3-Phase Tier 3
Model	SE0020D3ASXE	SE0030D3BSXE	SE0030D3CSXE	SE0030D3DSXE
Alternator Model	PI144H	PI144H	PI144H	PI144H
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	1	3	3	3
Alternator 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	AS480	AS480	AS480	AS480
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	100% of Rating	100% of Rating	100% of Rating	100% of Rating
Total Harmonic Distortion (THD), NL to FL	<5%	<5%	<5%	<5%
<ul style="list-style-type: none"> • 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 				

Weight & Dimensions

Assembled Weight (lbs / kg) 2761 LBS / 1253 KG

Overall Dimensions (in) 103.39" L x 43.55" W x 64.85" H 2626mm L x 1106mm W x 1647mm 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**