

20 kW Standby Generator

Model - AGi20P

AURORA

Generators

Power	20,000 watts
Voltage	120 V - 160 A 240 V - 80 A
Engine	Perkins - 4 Cylinder Diesel
Alternator	Mecc Alte - Brushless with AVR
Instrumentation	DynaGen - TG350 Auto-start
Sound Level	<70 dB @ 23 ft.*
Fuel Tank	12 gal / 45 L
Shipping Weight	1400 lb
Dimensions	57" x 33" x 44" (enclosed)



HIGH-PERFORMANCE COMPACT DESIGN

This Aurora compact generator features a high-quality diesel engine and an alternator that requires no maintenance. Thanks to these features, it delivers top-notch fuel efficiency, reliability, and durability, making it suitable for use in both residential and industrial settings. Moreover, it is designed to work with a two-wire start system, making it easy to use and convenient.

PERKINS ENGINE

This generator is powered by a clean, high-performance diesel engine. You can expect over 20,000 hours of engine life with minimal maintenance and oil change intervals of up to 500 hours. The engine features automatic glow plugs controlled by the generator controller, ensuring efficient and easy starting in cold weather. All Perkins engines are backed by a comprehensive factory warranty that covers parts, labor, and other related items.

MECC ALTE ALTERNATOR / GENERATOR

Aurora uses industrial-grade alternators to provide clean, reliable, and safe power. A digital voltage regulator guarantees that the output voltage remains accurate within 1%, safeguarding all your sensitive electronics. The alternators do not have brushes, so they require no maintenance. The Mecc Alte C-type alternators can operate under harsh conditions. They can withstand an overload of more than 300% forced current for up to 20 seconds, which makes them ideal for motor starting requirements.

INTEGRATED FUEL TANK

The fuel tank is in the base frame. The generator controller can monitor it and indicate when the fuel level is running low. It can also be programmed to shut down the generator before the tank runs empty, ensuring that the generator can be restarted smoothly. In addition, there is an option to purchase larger fuel tanks.

INSTRUMENTATION AND CONTROL

DynaGen tough series controllers provide clear generator instrumentation protection and control. They can operate in harsh conditions with severe duty and extreme shock and vibration protection. Some functions include auto-starting and exercise, electrical and engine monitoring, adjustable warning and alarm modes with auto-shutoff, and event logging for easy diagnostics and troubleshooting. Easily reconfigure settings using front panel buttons or free software. Settings can be password-protected to prevent accidental changes or tampering.

OPTIONAL WEATHER ENCLOSURE

The generator can be housed in a sound attenuated weather enclosure constructed out of galvanized steel and assembled with stainless steel fasteners. For superior corrosion resistance, it has a powder-coated finish.

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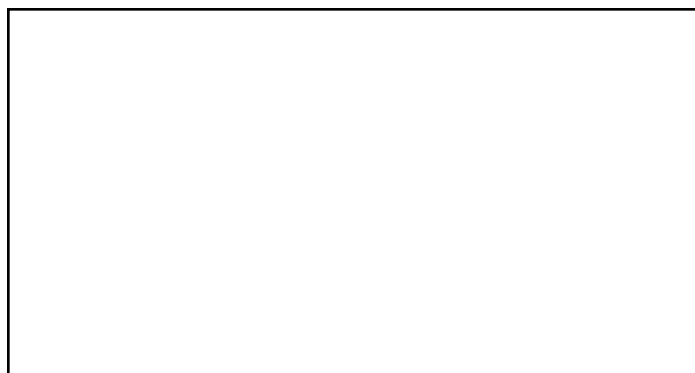
Engine	
Make & Model	Perkins 404D-22G
Power	21.3 kWe Standby 19.2 kWe Prime
Emissions	U.S. EPA T4i Stationary & CARB
After Treatment	None
Cylinders	4
Aspiration	Diesel
Injection System	Indirect injection
Displacement	135.2 in ³ / 2.216 L
Cooling System	Radiator water cooled
Coolant Capacity	1.85 gal / 7 L
Lube Oil Capacity	2.8 gal / 10.6 L
Cold Starting Aid	Glow Plugs
Maintenance	500 hr oil change interval
Electrical	12 V / 80 A alternator
Minimum Size Battery	Group 24 / 750 CCA
Fuel Consumption	50% - 0.82 gal / 3.12 L 75% - 1.13 gal / 4.29 L
Weight	533 lb / 242 kg
Warranty	2 yr / 3000 hr*

Alternator	
Make & Model	Mecc Alte NPE32 L4 C*
Type	1800 RPM, 4 pole, brushless, AVR, dedicated windings
Power	25.0 kW
Voltage	120 V / 240 V
Voltage Regulation	DSR Automatic voltage regulated to $\pm 1\%$
Total Harmonic Distortion	Full load L-N <3.0%
Efficiency	82.5 %
Insulation	Class H
Approvals	UL / CSA C22.2
Weight	264 lb / 120 kg

Fuel Tank	
Make & Model	Aurora AGi12F
Size	12 gal / 45 L
Material	Steel - Satin coat
Finish	Powder coated black sandtex
Fittings	Fuel pickup, return & vented fuel cap
Sensors	Electronic fuel level sensor

Generator Controller	
Make & Model	DynaGen TG350
Function	Instrumentation, protection & control
Display	Oil pressure, temperature, voltage, fuel level, battery voltage, engine speed, frequency, status, hour meter, maintenance etc...
Protection	Automatic warnings & shutdowns
Diagnostics	150 event log
Remote Starting	Manual and/or 2-wire start
Exercise	16 channel weekly scheduler
Standby Power	60 mA @ 12 Vdc
Operating Temperature	Controller functions -40 to +70° C Display viewing -20 - +70° C
Environment	Meets or exceeds SAE J1455 for vibration and shock
Electromagnetic Compatibility	Meets or exceeds MIL-STD-461E
Warranty	5 yr / 17,500 hr

Options	
Weather Enclosure	Galvannealed satin coat steel, powder coated and UV rated, with all stainless steel fasteners.
TG410 Controller	Includes Modbus communications and provides power and fuel consumption reporting
Oil Pan Heater	125 W Thermostatically controlled (200°F / 93°C)
3 Phase Output	208, 240, 480 & 600 V
Block Heater	120 V
Battery Charger	2 A Smart charger
Fuel Tank	50-400 gallon tanks



* Specifications are subject to change without notice.