

12 kW Diesel Generator

Model - AGi12Y

AURORA
Generators

Power	12,000 watts
Voltage	120 V - 100 A 240 V - 50 A
Engine	Yanmar - 3 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	1325 lb / 66" x 46" x 53" (enclosed)
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.

YANMAR ENGINE

A clean, high-performance diesel engine powers this generator. You can expect over 20,000 hours of engine life with minimal maintenance and an oil change interval of up to 500 hours. The engine uses glow plugs that operate automatically with the generator controller to maximize efficiency for easy cold-weather starting. All Yanmar engines are backed by a comprehensive factory warranty.

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

The DynaGen tough series controllers are built to last, providing robust generator instrumentation protection and control. They are designed to operate in the harshest conditions, with severe duty and extreme shock and vibration protection. Their 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. Settings can be easily reconfigured using front panel buttons or free software, and 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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AURORA[®]

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Engine	
Make & Model	Yanmar 3TNV88F-UGGE
Power	13.9 kWe Standby 12.7 kWe Prime
Emissions	U.S. EPA T4 Final & CARB
Cylinders	3
Aspiration	Natural
Injection System	Indirect Injection
Displacement	1.64 (cc) / 100 (ci)
Cooling System	Radiator water cooled
Coolant Capacity	7.1 qt / 6.7 L
Lube Oil Capacity	7.1 qt / 6.7 L
Weight	194 lb / 88 kg
Cold Starting Aid	Glow plugs
Maintenance	500 hr oil change interval
Electrical	12 V / 40 A battery alternator
Minimum Size Battery	Group 24 750 CCA
Weight	348 lb / 158 kg
Fuel Consumption	50% - 0.47 gal / 1.79 L 75% - 0.74 gal / 2.68 L
Warranty	2 Yr / 3000 hr*

Alternator	
Make & Model	Mecc Alte NPE32 1M4 C*
Type	1800 RPM, 4 pole, brushless, AVR, dedicated windings
Power	16.5 kW
Voltage	120 V / 240 V
Voltage Regulation	DSR automatic voltage regulator ±1%
Total Harmonic Distortion	Full load L-N <3.0%
Efficiency	81.4 %
Insulation	Class H
Approvals	UL / CSA C22.2
Weight	216 lb / 98 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 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 to +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.