



# 20 kW DIESEL GENERATOR

## 24 kVa / 20 kW

60 Hz., 1800 RPM Liquid Cooled  
Three Phase, 0.8 Power Factor  
Automatic Voltage Regulated  
30 Amps @ 480 Volts AC



### GENERATOR FEATURES

#### High Performance Compact Design

Built in Canada to meet the toughest customers needs. New high performance clean diesel power from a quieter compact design. Power you can depend on for commercial or off-grid applications. These generators can be used full-time or part-time, no matter what your application is. Includes many standard equipped features such as; a main circuit breaker, battery, muffler, vibration isolators, engine temperature sending unit and low coolant level sensor.

#### Engine

Powered by an American Built, compact Perkins 400 Series Engine. These engines are compact and easy to start. Perkins is known for their exceptional performance and long life. Low fuel consumption and durability make them a popular choice worldwide for power generation. Customers also save on maintenance costs because Perkins engines require fewer air filter, oil filter and lube oil changes. (Oil changes up to every 500 hours depending on load factor).

#### Alternator

Highly reliable industrial class alternator. A popular choice for harsh conditions where clean, stable power is required. Output is electronically voltage regulated to within 0.5% precision. The brushless design requires no maintenance.

#### Fuel Tank

An integrated fuel tank is located in the base frame of the generator with a low level sensor, mechanical fuel gauge and a secondary electronic gauge via generator controller. These features help prevent the fuel tank from running dry.

#### Controller

Dynagen - Clear generator instrumentation, complete generator system protection and control, 150 event logging, fuel level display and alarm capable. Programmable maintenance and exercise clock and much more. The controller is built to withstand severe duty, extreme shock, and vibration. Easy to use and configure via front panel buttons. Can be used manually or fully automatic via 2 wire auto start devices, such as a transfer switch or wireless remote control. Accepts additional customer sensors and switched outputs.

#### Canopy Enclosure - Optional

Weather resistant enclosure is constructed out of galvanized steel and assembled with high strength stainless steel fasteners. Powder coated finish, acoustical sound insulation and chrome plated locks secure the weather stripped doors from unauthorized access. The generator is designed to be cosmetically appealing while still being able to withstand harsh operating conditions.

#### Limited Warranty

Aurora 5 YEAR Generator Warranty, Perkins 3000 hours or two year engine warranty (three year core components). Perkins warranty is comprehensive and covers all parts and labour, plus miscellaneous items such as the travel costs of engineers to repair the engine. Optional extended warranty also available from Perkins.

### OPTIONAL ACCESSORIES

#### Available Fuel Tank Options

- ~ 450 Litre / 100 gal Sub Base Fuel Tank
- ~ 450 Litre / 100 gal Standalone Double Wall Fuel Tank UL
- ~ 1100 Litre / 250 gal Standalone Double Wall Fuel Tank UL
- ~ 225 Litre / 50 gal Mobile Fuel Tank
- ~ 450 Litre / 100 gal Mobile Fuel Tank

#### Available Generator Options

- ~ TG410 Controller Upgrade
- ~ Current Load Sensing
- ~ Battery Charger
- ~ Coolant Block Heater
- ~ Wireless Remote Control
- ~ Solar Battery Charger
- ~ Remote Monitoring
- ~ Spare Perkins OEM Filters



# 20 kW DIESEL GENERATOR

## Generator Specifications

Model	AGi20P.3.480
Type	Diesel
Power	20,000 watts 60 Hz Three Phase 30 amps @ 480 volts AC
Sound Level (Canopy)	68 dB @ 23 ft.
Dimensions & Weight (Open Frame)	57"L x 33"W x 39"H 1100 lbs
Dimensions & Weight (Canopy)	57"L x 33"W x 40"H 1250 lbs
Country of Origin	Made in Canada
Approvals	CSA SPE-1000

## Generator Controller

DynaGen	TG350 / TG410 (Optional)
Operating Voltage	5.5 to 38VDC continuous. Cranking dropouts to 0 VDC for 50 mS, also meets SAE J1113-11
Standby Current Draw	50 mA
Protection	Reverse battery and overload protected.
Operating Temperature	-40° - +158° F
Vibration & Shock	Meets or exceeds SAE J1455
Electromagnetic Compatibility	Meets or exceeds MIL-STD-461E Conducted Emissions
Configurable Switched Inputs	5
Configurable Switched Outputs (in addition to fuel & crank)	4
Warranty	5 Years

## Engine Specifications

Make/Model	Perkins 404D-22G
Standby Power	32.6 hp
Fuel Consumption - Prime	6.9 L / Hr 1.8 gal (US) / Hr
Fuel Consumption - 50%	3.5 L / Hr 0.9 gal (US) / Hr
Engine Speed	1800 RPM
Number of cylinders	4
Aspiration	Naturally aspirated
Combustion System	Indirect Injection
Compression Ratio	23.3:1
Bore and Stroke	84 x 100 mm / 3.3" x 3.9"
Displacement	2.216 litres
Cooling System	Water Cooled
Coolant Capacity	7 L 1.8 gal (US) / Hr
Oil Capacity	10.6 L 2.8 gal (US) / Hr
Oil & Filter Changes	500 hr dependent on load factor
Charging Alternator	65 amp
Starter Battery	12 Volt 850 cca - Included
Warranty	3000 Hr / 2 Year

## Alternator

Model	SMU180C-480
Type	Brushless Automatic Voltage Regulated
Voltage Regulation	±1
Rated Output	30 amps @ 480 volts
Insulation	Class H
Warranty	5 Years

## Fuel Tank

Volume	45 Litres / 12 gal (US)
Material	Aluminum
Standard	CAN/ULC-S601
Warranty	5 Year

 **Perkins**<sup>®</sup>

**Diesel Power**

Specifications are subject to change without notice.

