

# 180 kW John Deere Powered Fully Packaged Diesel Generator

## TRITON

The Triton Power Generation AC commercial series generator set is a fully integrated power generation system providing optimum performance with the reliability and versatility of a John Deere Engine.

Triton strives to meet all quality standards and provides a comprehensive warranty program. Triton meets the following standards: VDE 0530, BS 4999, BS 5000, IEC 34. Manufactured in accordance with ISO 9001.

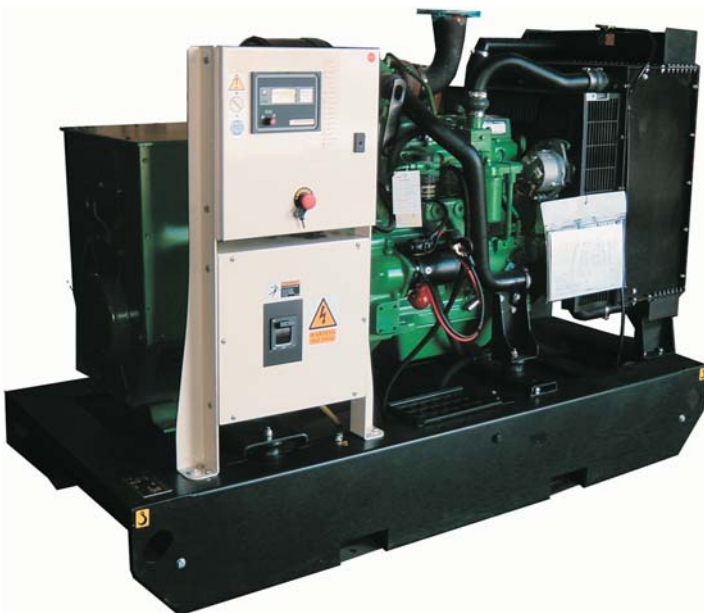
Optional sound attenuated weather-protective enclosures are available to shield the generator set from extreme operating conditions.

Diesel powered generator sets remain the number-one choice for standby and emergency power systems worldwide. Triton diesel generator sets are the epitome of rugged dependability and reliable mechanical and electrical performance.

## Standard Features

- ▶ Electric Starter
- ▶ Electronic Governor
- ▶ Single Bearing Alternator
- ▶ Insulation class H/H
- ▶ Skid Mounted with Vibration Isolators
- ▶ Dry Type Air Filter
- ▶ Main Line Circuit Breaker
- ▶ Battery Rack and Cables
- ▶ User Manual
- ▶ Heavy Duty Fabricated Steel Base Frame
- ▶ 8 Hour Base Mounted Fuel Tank
- ▶ One Year Limited Warranty
- ▶ Deep Sea Control Panel

## Model XJ180



- ▶ High quality and reliable
- ▶ Compact design
- ▶ Easy start and maintenance possibility
- ▶ Every gen-set is subject to a comprehensive test program which includes full and overload testing, checking and proving of all control and safety shut down functions

Powered By: JOHN DEERE

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## GENERATOR ENGINE

John Deere generator drive engines are the engines of choice of highly respected generator set manufacturers worldwide. They are simple in design, reliable, durable, economical, and globally supported giving customers worry free service in times when power is most needed.

See for yourself why leading generator set manufacturers and customers around the world choose John Deere generator drive engines. You can depend on John Deere generator drive power and worldwide John Deere parts and service. Anywhere in the world, John Deere delivers the power for you.

### GENERAL DATA

Manufacturer	JOHN DEERE
Model	6068H
Gross Engine Power Output @ Rated RPM	187 kWm (251 hp)
Aspiration and Cooling	Turbo Charged & After Cooled
Cylinders Capacity	6.8 L
Cylinders and Build	6 In Line
Engine Speed	1800 RPM
Bore and Stroke	106mm x 127mm (4.2 in x 5.0 in)
Compression Ratio	17.0 : 1
Governor	Electronic
Oil Capacity	24.6 L (6.5 gal)
Water Capacity	34.5 L (9.1 gal)
Air Intake - Engine	12.5 m <sup>3</sup> /min
Alternator Voltage Regulation	± 1%

### Exhaust System

Exhaust Gas Flow	34 m <sup>3</sup> /min
Exhaust Temperature	551° C (1023.8° F)

### Fuel System

100% (Standby Power)	41.7 L/h (11.0 gal/hr)
75% (Standby Power)	31.8 L/h (8.4 gal/hr)
50% (Standby Power)	21 L/h (5.5 gal/hr)
Fuel Tank Capacity	370 L (97.7 gal)

### FEATURES AND BENEFITS

#### Dynamically Balanced Crankshaft

- ▶ Induction-hardened journals for long hours of reliable service
- ▶ Robust design to drive machinery from the front of the crankshaft
- ▶ Supported by five main bearings

#### Forged Steel Connection Rods

- ▶ 45-degree connecting rod/cap-joint design allows the use of large connecting rod bearings for increased durability

#### Replaceable Wet-type Cylinder Liners

- ▶ Provide excellent heat dissipation
- ▶ Precision machined for long life
- ▶ Rebuild to original specifications

#### Easy to Apply, Easy to Install

- ▶ Front and rear engine mounting pads on the side of the block facilitates installations
- ▶ Standard auxiliary drive rated to 50 HP - intermittent for powering ancillary equipment
- ▶ Either side service for filters and service points
- ▶ All connection points in common locations make it easy to install or package

#### Compact Size

- ▶ Length is ideal for both skid and packaged installations
- ▶ High mount or low mount turbocharged position to meet packaging requirements.

#### World-Class Performance

- ▶ Excellent fuel economy and low oil consumption

#### Fuel System Controls

- ▶ Proven and reliable mechanical governor
- ▶ 3-5% Droop Governing
- ▶ 12V or 24V electric shutoff

#### Emissions

- ▶ CARB & EPA Certified

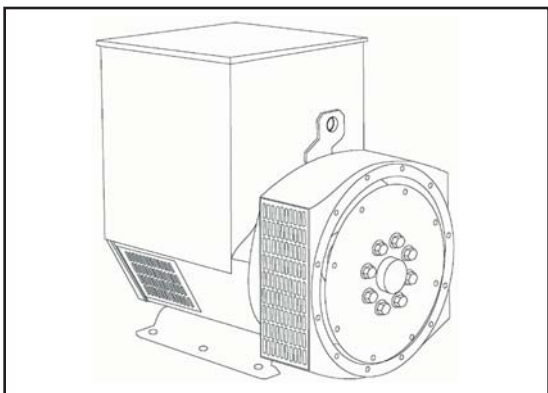
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## STAMFORD NEWAGE GENERATOR END

All Triton generators are built using Stamford Newage Generator Ends in order to provide high quality power generators.

STAMFORD NEWAGE has a long history of producing high-quality reliable products for the power generation market. Their portfolio of high quality generator ends is recognized as an industry standard.

### UCI274F - Technical Data



CONTROL SYSTEM		SEPARATELY EXCITED BY P.M.G.	
A.V.R.	MX 321	MX 341	
VOLTAGE REGULATION		± 0.5%	± 1.0% WITH 4% ENGINE GOVERNING
SUSTAINED SHORT CIRCUIT		REFER TO SHORT CIRCUIT DECREMENT CURVES	
CONTROL SYSTEM		SELF EXCITED	
A.V.R.	SX460	SX440	SX421
VOLTAGE REGULATION		± 1.5%	± 1.0% ± 0.5% WITH 4% ENGINE GOVERNING
SUSTAINED SHORT CIRCUIT		SERIES 4 CONTROL DOES NOT SUSTAIN A SHORT CIRCUIT CURRENT	
INSULATION SYSTEM		CLASS H	
PROTECTION		IP23	
RATED POWER FACTOR		0.8	
STATOR WINDING		DOUBLE LAYER CONCENTRIC	
WINDING PITCH		TWO THIRDS	
WINDING LEADS		12	
STATOR WDG, RESISTANCE		0.024 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED	
ROTOR WDG, RESISTANCE		1.52 Ohms AT 22°C	
R.F.I. SUPPRESSION		BS EN 61000-6-2 & BS EN 61000-6-4, VDE 0875G, VDE 0875N. REFER TO FACTORY FOR OTHERS	
WAVEFORM DISTORTION		NO LOAD < 1.5% NON DISTORTING BALANCED LINEAR LOAD < 5.0%	
MAXIMUM OVERSPEED		2250 REV/MIN	
BEARING DRIVE END		BALL. 6315-2RS (ISO)	
BEARING NON-DRIVE END		BALL. 6310-2RS (ISO)	
		1 BEARING	
WEIGHT COMP. GENERATOR		530 kg	
WEIGHT WOUND STATOR		200 kg	
WEIGHT WOUND ROTOR		188.67 kg	
WR <sup>2</sup> INERTIA		1.555 kgm <sup>2</sup>	
SHIPPING WEIGHT (CRATED)		563 kg	
SHIPPING CRATE SIZE		105cm x 67cm x 103cm	
		50 Hz	
TELEPHONE INTERFERENCE		THF < 2%	
		60 Hz	
COOLING AIR		0.514 m <sup>3</sup> /sec 1090 cfm	
		TIF < 50	
		0.617 m <sup>3</sup> /sec 1308 cfm	

## DEEP SEA ELECTRONICS CONTROL PANEL 5210

Model 5210 is an Automatic Engine Control Module. The module is used to automatically start and stop the engine, indicating the operational status and fault conditions, automatically shutting down the engine and indicating an engine failure by means of an LCD display and an appropriate flashing LED on the front panel. Selected timers and alarms can be altered by the customer from the front panel. Alterations to the system are made using the 810 interface and a PC. This interface also provides real-time diagnostic facilities.

It is possible to monitor operation of the system either locally or remotely. (Optional: remote communications output versions only.)

### Easy Pushbutton Control

Operation of the module is via pushbutton controls (with security locking facility) mounted on the front panel with STOP/RESET, AUTO, MANUAL, and START buttons. The first three buttons feature LED 'selected' indications. Further buttons provide LCD DISPLAY SCROLL and EVENT LOG VIEW functions.

### Microprocessor Control

The module features 16 bit microprocessor control and a comprehensive list of timers and pre-configured sequences. This allows demanding specifications to be achieved. Configurable expansion facilities are also provided.

### Metering

The 5210 module provides metering via the LCD display with the following instrumentation displays, accessed via the LCD DISPLAY SCROLL push buttons:

- ▶ Generator Volts L1-N, L2-N, L3-N
- ▶ Generator Volts L1-L2, L2-L3, L3-L1
- ▶ Generator Amps L1, L2, L3
- ▶ Generator Frequency Hz
- ▶ Engine Speed RPM
- ▶ Engine Oil Pressure
- ▶ Fuel Level %
- ▶ Engine Temperature
- ▶ Plant Battery Volts
- ▶ Engine Hours Run
- ▶ Generator kVA
- ▶ Generator kW
- ▶ Generator Cosθ

## Additional Features

- ▶ Event Log
- ▶ Digital Inputs
- ▶ Analog Inputs
- ▶ Relay Outputs
- ▶ Multiple Alarm Channels
- ▶ Emergency Shutdowns
- ▶ Built-in Exerciser Scheduler
- ▶ Multi-Functional Timers
- ▶ Magnetic Pickup or Alternator
- ▶ Speed Monitoring
- ▶ System Lock Input
- ▶ And More

Control Panel By:



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## Optional Features

- ▶ Electronic Governor Control System
- ▶ Automatic Fuel Filling System
- ▶ Engine Oil Heater
- ▶ Remote Radiator
- ▶ Low Fuel Level Alarm
- ▶ Charge Voltmeter
- ▶ Charge Ammeter
- ▶ Critical Silencer
- ▶ Enclosure or Soundproof Canopy
- ▶ Residential Silencer
- ▶ PMG
- ▶ Tool Kit



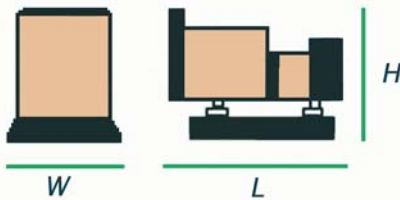
- ▶ U.L. Breaker
- ▶ Anti Condensation Heater for Alternator
- ▶ Sub-base, Remote, or Day Fuel Tank
- ▶ 4 Pole Contactor
- ▶ Oversized Alternator
- ▶ Automatic Transfer Switch
- ▶ Trailer
- ▶ Remote Monitoring System
- ▶ NFPA Controls
- ▶ Manual Sump Oil Drain Pump
- ▶ And More



control your generator remotely



## DIMENSIONS (Open Unit)

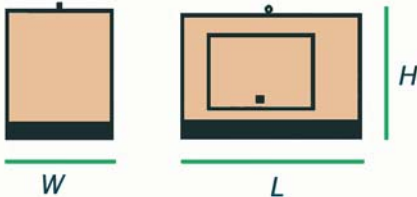


Size (L x W x H) in Inches  
96.9" x 43.3" x 60.2"

Dry Weight in Pounds (lbs)  
3506 lbs.



## DIMENSIONS (Enclosed Unit)



Size (L x W x H) in Inches  
128" x 43" x 72.5"

Dry Weight in Pounds (lbs)  
4829 lbs.



Visit us on the web at [www.tritongenerators.com](http://www.tritongenerators.com)

Design and specifications subject to change without notice.  
Dimensions shown are approximate. Contact your  
Triton Power dealer for more information. **DO NOT USE THESE  
DIMENSIONS FOR INSTALLATION PURPOSES.**