

264 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
- ▶ Mechanical Governor
- ▶ Single Bearing Alternator
- ▶ Insulation class H/H
- ▶ Skid Mounted with Vibration Isolators
- ▶ Dry Type Air Filter
- ▶ Remote 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 TRJ264



Powered By: JOHN DEERE

- ▶ 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

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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	Aspiration	Air to Air
Model	6081HF070	Length	1210mm (47.6 in.)
Number of Cylinders	6	Width	599mm (23.5 in.)
Displacement	8.1 L (496 cu. in.)	Height	1152mm (45.4 in.)
Bore and Stroke	116mm x 129mm (4.56 in. x 5.06 in.)	Weight	776kg (1711 lbs)
Compression Ratio	15.7 : 1		
Engine Type	In-Line, 4 Cycle		

FEATURES AND BENEFITS

Directed Top-Liner Cooling

- ▶ Directing Coolant to upper end of the liner reduces liner temperatures by up to 100 degrees F (54 degrees C) improving power cylinder durability and head gasket life, and reducing oil consumption and emissions

SAE J1939 Standard Communication Link

- ▶ Industry standard which provides an interface with vehicle systems like the transmission, hydraulics, and various accessory drives, minimizing machine complexity and reducing vehicle total installed cost

John Deere Electronic Controls

- ▶ John Deere electronically controlled fuel systems monitor critical engine functions and either derates or shuts down (override capability provided) an engine to prevent costly engine repairs
- ▶ Built-in controls eliminate need for costly add-on engine warning/shutdown systems and associated devices
- ▶ Service diagnostics and error codes automatically stored for later retrieval, increasing machine uptime
- ▶ Performance connector part of engine wiring harness which allows for programming of multiple power curves and droop or isochronous governor regulation

Either Side Service

- ▶ Combination oil fill/dipstick available on either side of the engine, greatly simplifying engine installation

Gear Auxiliary Drive

- ▶ Left Hand gear auxiliary drive available which provides up to 60 hp (45kW) intermittent

Self-adjusting poly-vee fan drive

- ▶ Self-adjusting, eight-groove, poly-vee fan drive provides multiple fan drive ratios and fan heights that can be matched to specific application requirements
- ▶ Poly-vee design provides more than twice the drive capacity of comparable vee-belts

Additional Features

- ▶ 8.1 engine includes gear-driven water pump, improved accessory mounting, gear-driven auxiliary drive, self-adjusting poly-vee fan drive, air compressors, and high-mount A/C compressor options

Optional Rear PTO

- ▶ Rear PTO is an integral part of the flywheel housing and provides a means for driving medium/large hydraulic pumps and air compressors
- ▶ Available in SAE #1 or SAE #2 flywheel-housing configuration for dry applications
- ▶ 1.3:1 output ratio allows the use of smaller, higher speed hydraulic pumps
- ▶ Gear train, pump drives, and flanged output drive are capable of up to 300 hp/224 kW (750 ft-lbs / 1018 N.m torque) on an intermittent basis
- ▶ Right-hand side pad standard with optional left-hand side pad
- ▶ Standard SAE "C" and optional "B", "D" mounting points and flange output drives

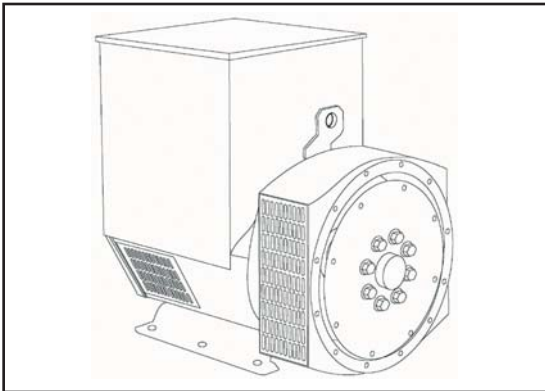
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STAMFORD NEWAGE GENERATOR END

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.

HC144C - Technical Data



CONTROL SYSTEM		SELF EXCITED	
A.V.R.	SX 440	SX 421	
VOLTAGE REGULATION	± 1.0%	± 0.5% WITH 4% ENGINE GOVERNING	
SUSTAINED SHORT CIRCUIT	WILL NOT SUSTAIN A SHORT CIRCUIT		
INSULATION SYSTEM		CLASS H	
PROTECTION		IP23	
RATED POWER FACTOR		0.8	
STATOR WINDING		DOUBLE LAYER LAP	
WINDING PITCH		TWO THIRDS	
WINDING LEADS		12	
STATOR WDG. RESISTANCE		0.0166 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED	
ROTOR WDG. RESISTANCE		0.92 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. 6317 (ISO)	
BEARING NON-DRIVE END		BALL. 6314 (ISO)	
		1 BEARING	
WEIGHT COMP. GENERATOR		850 kg	
WEIGHT WOUND STATOR		370 kg	
WEIGHT WOUND ROTOR		324 kg	
WR ² INERTIA		3.5531 kgm ²	
SHIPPING WEIGHT (CRATED)		920 kg	
SHIPPING CRATE SIZE		155cm x 87cm x 107cm	
		50 Hz	
TELEPHONE INTERFERENCE		THF < 2%	
		60 Hz	
		TIF < 50	
COOLING AIR		0.486 m ³ /sec 1030 cfm	
		0.580 m ³ /sec 1240 cfm	
VOLTAGE SERIES STAR		380/220	400/231 415/240 440/254 416/240 440/254 460/266 480/277
VOLTAGE PARALLEL STAR		190/110 200/115 208/120 220/127	208/120 220/127 230/133 240/138
VOLTAGE SERIES DELTA		220/110 230/115 240/120 254/127	240/120 254/127 266/133 277/138

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



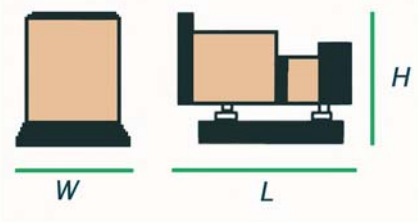
- ▶ U.L. Breaker
- ▶ Anti Condensation Heater for Alternator
- ▶ Sub-base, Remote, or Day Fuel Tank
- ▶ 4 Pole Contactor
- ▶ Oversized Alternator
- ▶ Automatic Transfer Switch
- ▶ Trailer
- ▶ Remote Monitoring System
- ▶ NFPA Controls
- ▶ Manual Sump Oil Drain Pump
- ▶ And More



control your generator remotely



DIMENSIONS (Open Unit)

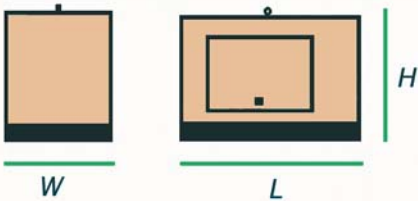


Size (L x W x H) in Inches
114.25" x 45.25" x 70.25"

Dry Weight in Pounds (lbs)
4696 lbs.



DIMENSIONS (Enclosed Unit)



Size (L x W x H) in Inches
157.5" x 45.25" x 81"

Dry Weight in Pounds (lbs)
6350 lbs.

