150 KW / 188 KVA
POWERED by

JOHN DEERE

MODEL		TP-JD150-T1-60-3PH	
Triton Power is a world leader in the design, manufacture of stationary, mobile and rental generator sets and Power Modules from 10 to 2000 kW. Through our commitment to quality we manufacture with only the highest quality components from companies like Cummins, John Deere, Perkins, Marathon, and Deep Sea. All of this plus our worldwide warranty, customer service professionals, is why Triton is the **THE POWER OF QUALITY**			
Available Voltage	**Standby**	**kVA**	**188**
3 Phase		**kW**	**150**
120/208, 110/220, 120/240, 277/480	**Prime**	**kVA**	**175**
Power Factor 0.8		**kW**	**140**

Standby : Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046 .
Prime : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance
- Every generator set is subject to a comprehensive test program which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories:
  - Sound Attenuated Enclosure
  - Trailer with fuel tank
  - UL Listed Fuel Tank
  - Permanent Magnet Generator
  - Electronic Governor

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ENGINE INFORMATION		
ENGINE MAKE		**John Deere**
Model		**6068 HF158**
Tier Rating		**Non Compliant**
Engine Speed	**RPM**	**1800**
Engine Power Output at rated 1800 rpm	**kWm**	**168**
	HP	**225**
Cooling		**Radiator Cooled**
Aspiration		**Turbocharged / Air to Air**
Total Displacement	**Liter**	**6.8**
No. of Cylinders and Build		**6 in-line**
Bore and Stroke	**mm x mm**	**106 x 127**
Compression Ratio		**17.0:1**
Governor		**Mechanical**
Fuel Consumption (L/hr) (Standby)	**Full Load**	**46.1**
	75% Load	**35.5**
	50% Load	**23.4**
Fuel Tank Capacity (Non-UL)	**Liter (Open/SAE)**	**260/425**
Oil Capacity	**Liter**	**20**
Coolant Capacity	**Liter**	**29**
Radiator Cooling Air	**m^3/sec**	**2.7**

Compact, Efficient Power

- This 6-cylinder, 6.8L engine has world-class performance that is compact, quiet and light. It makes this engine a perfect choice for low horsepower applications.
- Dynamically balanced crankshaft
- Forged-Steel Connecting Rods
- Replaceable Wet-type Cinder Liners

Quality by Design

- Product design and Class A manufacturing improvements enhance product reliability while maintaining John Deere's legendary reputation for durability.

- Efficient water cooled diesel engine.
- Single bearing CGT Stamford alternator
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel skid base with fork lift pockets
- Integral fuel tank with filler cap and gauge
- Heavy duty rubber anti-vibration mountings
- 12V starter battery and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element
- Industrial silencer (15dBA reduction) supplied loose
- Auto start control system with digital instrumentation

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CONTROLLER INFORMATION
DEEP SEA MODEL 7310

The DSE7310 is a control module for single gen-set applications. The module incorporates a number of advanced features to meet the most demanding on-site applications. The DSE7310 is an Automatic Start Control Module designed to start and stop diesel and gas generating sets that include electronic and non-electronic engines. The module includes USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for expansion device connectivity. The modules are simple to operate and feature a simple menu layout for improved clarity. Enhanced features include a real time clock for enhanced event and performance monitoring, Ethernet communications for low cost monitoring, dual mutual standby to reduce engine wear and tear, and preventative maintenance features to detect engine part faults prior to a major problem occurring.

MAIN FEATURES:

NEW FEATURES

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- “Protections disabled” feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar) protection
- LED and LCD alarm indication
- Power monitoring (kWh, kVAr, kV Ah, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- True dual mutual standby with load balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- Idle control for starting & stopping.
- DSENet® expansion compatible

BENEFITS

- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Multiple date and time scheduler
- Set maintenance periods can be configured to maintain optimum engine performance
- Ethernet communications (via DSE860/865 modules), provides advanced remote monitoring at low cost
- Modules can be integrated into building management systems (BMS)
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements

OPERATION

The module is operated using the front STOP/RESET, MANUAL, AUTO, TEST and START pushbuttons. An additional pushbutton next to the LCD display is used to scroll through the modules metering displays.

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ALTERNATOR INFORMATION	
Manufacturer	Stamford
Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 -163°C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

STANDARD ITEMS

- Mainline Circuit Breaker
- Generator Set mounted on Heavy Duty Steel Base Frame
- Anti-Vibration Pads between Engine/Alternator and Frame
- 8 to 10 Hour Base Fuel Tank (up to 600 kW)
- Forklift Pockets within Base Frame (up to 400 kW)
- Battery Charging Alternator

OPTIONAL ITEMS

ENGINE OPTIONS	• Engine Block Heater • Racor Fuel Water Separator • Oil Heater
ALTERNATOR OPTIONS	• Permanent Magnet Generator • Anti-Condensation Heater • Oversized Alternator (Motor Starting)
OTHER OPTIONS	• Sound Attenuated Enclosure with Critical Silencer (70 db at 7 meters) • Trailer (with or without fuel tank) • UL-142 Base Mounted Fuel Tank • Residential or Critical Grade Silencer

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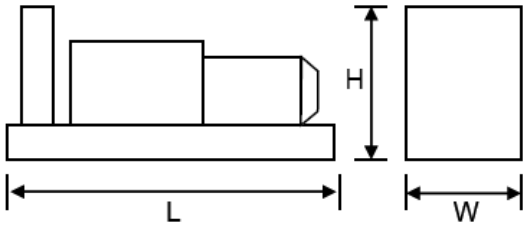
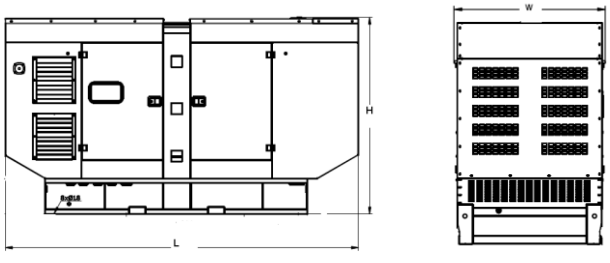
WEIGHT AND DIMENSIONS



SKID MOUNTED GENERATOR		
DIMENSIONS (LxWxH)	mm	2700 x 800 x 1933
DRY WEIGHT	kg	1598



SOUND ATTENUATED GENERATOR		
DIMENSIONS (LxWxH)	mm	3550 x 1160 x 1800
DRY WEIGHT	kg	2323
FEATURES AND BENEFITS OF ENCLOSURE:		
• All enclosure parts are modular • No welding to reduce corrosion • Doors on both sides for easy maintenance • All metal parts are powder coated		• Critical Exhaust Silencer Included • Thermally insulated exhaust system • Emergency stop located on exterior • Easy Lifting and Moving

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