# 190 kVA Triton Rental Grade Generator – Tier 4 Final

## TP-RJD190-T4F-RENTAL

Triton Power offers a complete line of mobile diesel generators from 15 to 1500 kVA. Quiet and Dependable, our generators power everything from construction to entertainment to natural disaster recovery.

FEATURES

- ✓ Fully Integrated Mobile Power Generation System
- ✓ Prototype-tested, Factory Built and Fully Tested
- ✓ Open-Source Components and Controls
- ✓ Average of 66 dB(A) @ 7 m
- ✓ 125% Full Containment for Fluids
- ✓ 3 Position Voltage Switch and Distribution Panel (up to 288 kVA)
- ✓ Standard Sub-Base Tank up to 45 hours

OPTIONS:

- ° 2, 3 or 4 Position Voltage Switch
- ° Full Distro Panel to Any Combination of Connections
- ° Paralleling Controls
- ° UL2200 and CSA Available
- ° Extended Warranty
- ° Trailer with Extended Fuel Capacity

OUTPUT RATINGS - SWITCHABLE

| Available Voltages at 60Hz | Standby | | Prime | |
|---|---|---|---|---|
| | kW | kVA | kW | kVA |
| *Single Phase, 1.0 Power Factor 110/220, 120/240* | 125 | 125 | 113 | 113 |
| *Three Phase, 0.8 Power Factor 120/208, 277/480* | 165 | 210 | 152 | 190 |

## OUR TIER FOUR FINAL ENGINES

Triton's TP JD165 T4F and TP RJD190 T4F generators are powered by the John Deere 6068HG550, a 6.8 L, 6-cylinder diesel engine built to meet Tier 4 Final standards. It uses a wastegated turbocharger, cooled air intake, and a combination of emissions technologies to reduce soot, NOx, and fuel waste. With responsive fuel injection and strong torque, this engine delivers reliable performance for backup, mobile, and industrial applications where clean operation is essential.

## OUR ALTERNATORS

Triton Mobile are equipped with Leroy-Somer alternators. Utilizing the latest technologies and with outputs extending from 5 to 5,000 kW, these alternators are designed to deliver superior efficiencies in Standby, Continuous and Prime generator applications worldwide.

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## ENGINE INFORMATION

| | |
|---|---|
| *Engine Make* | John Deere |
| *Model* | 6068HG550 |
| *Tier Rating* | Tier 4 Final |
| *Engine Speed (RPM)* | 1800 |
| *Engine Power Output at rated RPM* | 180 kWm / 241 HP |
| *Cooling* | Radiator Cooled |
| *Aspiration* | Turbocharged |
| *Total Displacement (Liter)* | 6.8 |
| *No. of Cylinders and Build* | 6, in line |
| *Bore and Stroke* | 106 x 127 |
| *Compression Ratio* | 17.2:1 |
| *Governor* | Electronic |
| *Fuel Consumption (L/hr)* | |
| *Full Load* | 33.7 |
| *75% Load* | 27.3 |
| *50% Load* | 7 |
| *Oil Capacity (Liter)* | 33 |
| *Coolant Capacity (Liter)* | 25 |

## ABOUT THE ENGINE

You can count on John Deere PowerTech™ generator drive engines to start in the morning, operate efficiently all day, and work reliably for many years. But pure product performance isn't the strongest thing about working with John Deere. It's the confidence of having the John Deere integration and support network at your side every step of the way. John Deere generator drive engines are ready when and where you need them. They provide fast response for standby situations and exceptional load recovery for prime usage in a wide variety of applications.

## ALTERNATOR INFORMATION

| | |
|---|---|
| *Manufacturer* | Leroy Somer |
| *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% |

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## STANDARD ITEMS

- ✓ Engine System:
  - Air Cleaner
  - Commercial Grade Exhaust (Enclosed Versions)
  - Expanded Metal Safety Guards
- ✓ Fuel System
  - Primary Fuel Filter
  - Flexible Fuel Lines
- ✓ Cooling System
  - Factory Installed Radiator
  - Radiator Drain Extension
- ✓ Electrical System
  - Unit Mounted Mainline Circuit Breaker
  - Battery Charging Alternator
  - Battery Tray and Cables
- ✓ Generator Set
  - Mounted on Heavy Duty Steel Base Frame
  - Anti-Vibration Pads between Engine/Alternator and Frame
  - Full Factory Load Bank Testing
- ✓ Alternator
  - Single or Three Phase Available
  - Class H Insulation
- ✓ Enclosure (if selected)
  - Heavy Duty Steel Enclosure (Aluminum Options)
  - Powder Coated Finish
  - Easy Access to All Service Points
  - Fully Sound Attenuated
  - Easy to Transport

## OPTIONAL ITEMS

- ✓ Engine System:
  - Upgraded Exhaust Silencers (Hospital, Residential, Critical)
  - Heavy Duty Air filters
  - Oil Drain Extension
  - Oil Heater
  - Block Heater (Standard and Circulating)
- ✓ Fuel System
  - Multi-Valve Fuel Connections
  - Fuel Heater
- ✓ Electrical System
  - Battery Charger (Standard, Float Type and Solar)
  - Additional Circuit Breakers
  - Shunt Trips
  - Electrically Controlled Breakers
  - Remote Emergency Stop Switch
  - Remote Monitoring
  - Paralleling Systems
  - Electrical Connections (Cam-Locks, Reefer Plugs, Distro Panel, and more)
  - Multi Voltage Selector Switches
- ✓ Cooling System
  - Upgraded Radiator Systems
  - Marine Grade Coating
- ✓ Enclosure
  - Aluminum Enclosure
  - Ultra-Quiet Enclosure
  - 20 and 40' Container Packages
  - Custom Paint Colors
  - Rodent Guards
- ✓ Alternator
  - 600 Voltage
  - Medium Voltage
  - Two Bearing
  - Tropicalization
  - Anticondensation Heaters
  - PMG
- ✓ Additional Options
  - Fire Suppression Systems
  - Seismic Isolators
  - Remote Control Systems
  - Enclosure Lights
  - Cold and Extreme Weather Packages
  - NFPA 110 Compliance
  - Standard and Custom Fuel Tanks
  - Standard and Custom Trailers
  - Please inquire, Triton can assist in engineering nearly any option

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# RENTAL PACKAGE

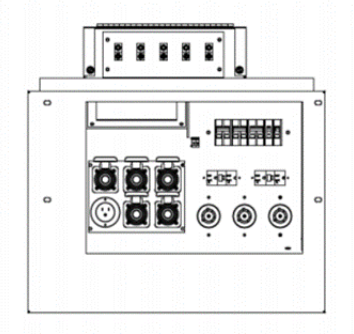
## 3 POSITION VOLTAGE SELECTOR SWITCH

Our industrial grade voltage selector switches stand above competition. Equipped with high short circuit breaking capacity, mechanical interlock and an overcurrent protection device with the highest quality standards. All models come standard with a lockable design, that can be locked in any position to provide additional safety.

SYSTEM OUTPUT:

- Single Phase 120/240V
- Three Phase 120/208V
- Three Phase 277/480V

## POWER DISTRIBUTION PANEL:



- Individual Breaker Protection for sockets.
- Main Circuit Breaker.
- 2 GFCI duplex receptacles (20A – 125V), protects electrical
- wiring and receptacles from overheating and possible fire.
- 50A 125/250V twist-lock receptacles with Lexan covers
- Full Set of Cam Locks, Quantity and Size based on Generator output.

## DEEP SEA CONTROL PANEL 7420

- The DSE7420 is an Auto Start Control Module and is also an Auto Mains (Utility) Failure Control Module.
- A sophisticated module monitoring an extensive number of engine parameters, the DSE7420 will annunciate warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LED, remote PC, and audible alarms.
- The module includes RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion.
- The DSE7400 Series modules are compatible with electronic (CAN) and non-electronic (magnetic pickup/alternator sensing) engines and offer a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to your requirements.
- The modules can be easily configured using the DSE Configuration Suite Software.

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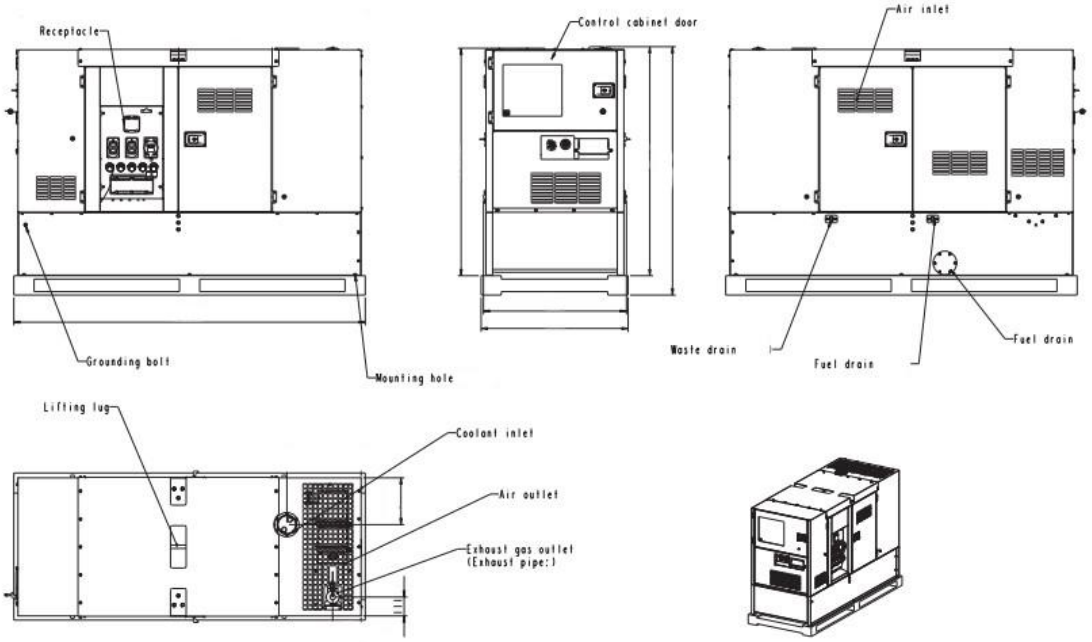
## WEIGHT AND DIMENSIONS

| Enclosed | |
|---|---|
| *Length (mm)* | 3650 |
| *Width (mm)* | 1300 |
| *Height (mm)* | 2080 |
| *Dry Weight (kg)* | 3129.41 |
| *Fuel Tank (L)* | 800 |




*Drawings are representative only and do not reflect actual product

## ENCLOSURE FEATURES AND BENEFITS

- ✓ Made of high-quality steel and completely powder coated. The paint has a three-step process ensuring protection.
- ✓ Advanced water and dust proof design of service doors and enclosure.
- ✓ Noise reduction enhanced by an exhaust silencer and high quality interior acoustic lining that is sound absorbent and fire-retardant
- ✓ Built for easy installation, maintenance and transport
- ✓ Lifting eyes located at base make it easier to move and transport.
- ✓ Easy to Maintain with Access on both sides, includes Integral base drainage outlets, modular enclosure for easy parts replacement.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