713 kVA Triton Rental Grade Generator – Tier 4 Final
TP-RV713-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 72 dB(A) @ 7 m
- ✓ 125% Full Containment for Fluids
- ✓ 3 Position Voltage Switch and Distribution Panel (up to 288 kVA)
- ✓ Standard Sub-Base Tank 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 kW	Standby kVA	Prime kW	Prime kVA
Single Phase, 1.0 Power Factor 110/220, 120/240	-	-	-	-
Three Phase, 0.8 Power Factor 120/208, 277/480	627	784	570	713

OUR TIER FOUR FINAL ENGINES

Only the highest quality Final Tier 4 engines power our mobile generators, offering the maximum performance and versatility. We utilize Kubota (15 to 40 kVA), John Deere (55 to 300 kVA), Scania (350 to 550 kVA) and Volvo (625 to 1500 kVA). Countless hours of lab testing, field prototype machines, and rugged off-highway applications have proven you don't have to sacrifice performance to comply with emissions standards.

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	Volvo
Model	TWD1673GE
Tier Rating	Tier 4 Final
Engine Speed (RPM)	1800
Engine Power Output at rated RPM	655 kWm / 878 HP
Cooling	Radiator Cooled
Aspiration	Turbocharged
Total Displacement (Liter)	16.12
No. of Cylinders and Build	60, in line
Bore and Stroke	144 x 165
Compression Ratio	16.8:1
Governor	Electronic
Fuel Consumption (L/hr)	
Full Load	128.9
75% Load	97.7
50% Load	67.8
Oil Capacity (Liter)	42
Coolant Capacity (Liter)	33

ABOUT THE ENGINE

Volvo's entire Tier 4 Final / Stage IV certified engine range maximizes efficiency while delivering the power and reliability our customers demand. Volvo developed a simple Selective Catalytic Reduction (SCR) system together with light Exhaust Gas Recirculation (EGR). The Volvo Penta Tier 4 Final / Stave IV solution means less maintenance for customers, as well as better productivity and uptime. The single canister Volvo Penta solution allows OEMs to optimize their packaging instead of having to design and install two catalysts.

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:
  - o Oil Drain Pump
  - o Tier 4 Final Certification
  - o Electronic Governor
  - o Full Fluid Containment
- ✓ Fuel System
  - o Fuel Valve for External Tank
  - o Primary Fuel Filter
  - o Fuel Capacity: XXX liters
  - o Flexible Fuel Lines
- ✓ Electrical System
  - o 3 Position Voltage Switch (Standard up to 288 kVA)
  - o Side Mounted Control Panel
  - o Unit Mounted Mainline Circuit Breaker
  - o Battery Switch
  - o Distribution Panel with Cam-Locks
- ✓ Cooling System
  - o 45º C Ambient Temperature Rating
  - o 50/50 Ethylene glycol antifreeze
  - o Radiator Drain Extension
- ✓ Generator Set
  - o Mounted on Heavy Duty Steel Base
  - o Full Factory Load Bank Testing
  - o Sub-Base Lifting Points
  - o Forklift Pockets for Easy Transport
- ✓ Alternator
  - o 12 Lead Leroy-Somer Alternator
- ✓ Enclosure
  - o Stainless Steel Hinges and Locks
  - o Ultra-Quiet Enclosure
  - o Powder Coated Finish
  - o Easy Access to All Service Points
  - o Fully Sound Attenuated
  - o Advanced Water and Dust Proofing

OPTIONAL ITEMS

- ° Engine System:
  - o Upgraded Exhaust Silencers (Hospital, Residential, Critical)
  - o Heavy Duty Air filters
  - o Oil Heater
  - o Block Heater (Circulating, up to 5000 Watt)
- ° Fuel System
  - o Fuel Cooling System
  - o Extended Fuel Tank
- ° Electrical System
  - o 2 or 3 Position Voltage Switch available for over 288 kVA
  - o Battery Charger (Standard and Float Type)
  - o Additional Circuit Breakers
  - o Shunt Trips
  - o Electrically Controlled Breakers
  - o Paralleling Systems
  - o Electrical Connections (Cam-Locks, Refer Plugs, Distro Panel, and more)
- ° Cooling System
  - o Upgraded Radiator Systems
  - o Marine Grade Radiator
- ° Generator Set
  - o Seismic Isolators
  - o Remote Mounted Control System
- ° Enclosure
  - o Aluminum Enclosure
  - o Ultra-Quiet Enclosure
  - o 20 and 40’ Container Packages
  - o Custom Paint Colors
- ° Alternator
  - o Marinization (2-3 times dipped)
  - o Permanent Magnetic Generator
- ° Trailer
  - o Standard Trailer
  - o Trailer with Extended Fuel Tank
  - o Rhino Coating
- ° Additional Options
  - o Please inquire, Triton can assist in engineering nearly any option

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RENTAL PACKAGE

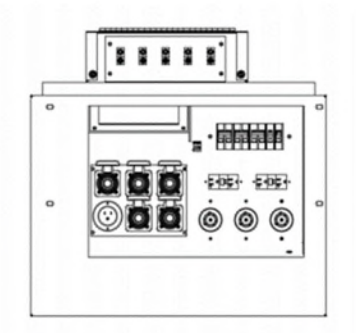
3 POSITION VOLTAGE SELECTOR SWITCH

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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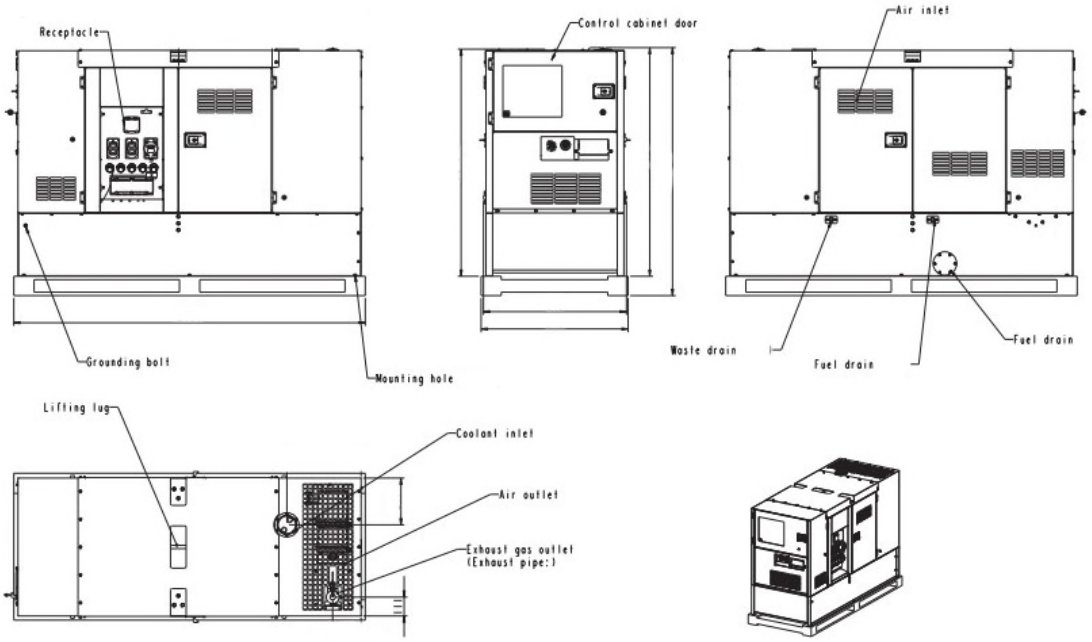
WEIGHT AND DIMENSIONS

Enclosed	
Length (mm)	4592
Width (mm)	1763
Height (mm)	2516
Dry Weight (kg)	6470
Fuel Tank (L)	1020



*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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