

# 90 kVA Triton Rental Grade Generator – Tier 4 Final

## TP-RD90-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
- ✓ As quiet as 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	76	76	68	68
Three Phase, 0.8 Power Factor 120/208, 277/480	81	101	73	91

### 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 Doosan, 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 generators 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

<i>Engine Make</i>	Doosan
<i>Model</i>	D34
<i>Tier Rating</i>	Tier 4 Final
<i>Engine Speed (RPM)</i>	1800
<i>Engine Power Output at rated RPM</i>	92 kWm / 125 HP
<i>Cooling</i>	Radiator Cooled
<i>Aspiration</i>	Turbocharged and Air to Air
<i>Total Displacement (Liter)</i>	3.409
<i>No. of Cylinders and Build</i>	4, In Line
<i>Bore and Stroke</i>	98 x 113
<i>Compression Ratio</i>	18.0:1
<i>Governor</i>	Electronic
<i>Fuel Consumption (L/hr)</i>	
<i>Full Load</i>	19.4
<i>75% Load</i>	14.4
<i>50% Load</i>	9.9
<i>Oil Capacity (Liter)</i>	12.6
<i>Coolant Capacity (Liter)</i>	12.1

## ABOUT THE ENGINE

Ever since its production of the very first diesel engine in Korea in 1958, Hyundai Doosan Infracore has been supplying diesel and natural gas engines developed with its proprietary technology at large-scale engine production facilities to customers all around the world. Hyundai Doosan Infracore is now taking a leap forward as a global engine manufacturer that places top priority on customer satisfaction.

## ALTERNATOR INFORMATION

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



## 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

## 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

#### CONVENIENCE PANEL:

- Individual Breaker Protection for sockets.
- Main Circuit Breaker (3P/400A)
- (3)-50A 125/250VAC 3P4W Twist Lock CS6369
- 2-20A 120VAC Duplex GFCI Nema 5-20R
- Thumb Screw Terminals for 2-Wire Remote Start
- 15A 120VAC Male Receptacle Shore Power Connection
- (5)-400A Rated Female Cam Style Locking Receptacles
- (5)-400A Rated Lug Connection
- Emergency Stop Switch

### DEEP SEA CONTROL PANEL 7420

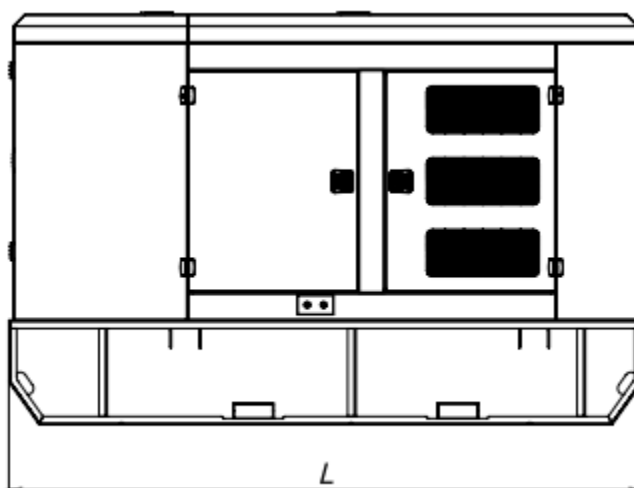
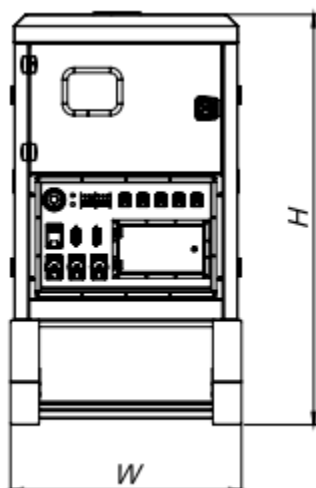
- The DSE7420 is an Auto Start Control Module and is also an Auto Mains (Utility) Failure Control Module.
- A sophisticated module monitoring an extensive number of engine parameters, the DSE7420 will annunciate warnings, shutdown and engine status information on the back-lit LCD screen, illuminated 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.



## WEIGHT AND DIMENSIONS

### Enclosed

Length (in)	122
Width (in)	44.5
Height (in)	78.8
Dry Weight (Lb)	4400
Fuel Tank (L)	540



\*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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