

# 30 kW Triton Diesel Generator – UL2200 Listed

## TP-P30-T4i-UL



Triton Generators are designed and engineered to power a variety of projects and can be completely customized for your exact requirements.



### FEATURES

- ✓ Fully Integrated Power Generation System
- ✓ Prototype-tested, Factory Built and Fully Tested
- ✓ Open-Source Components and Controls
- ✓ Designed to Power any application
- ✓ Wind Load Rated up to 200mph

### OPTIONS:

- Sound Attenuated Enclosure
- Paralleling Controls
- UL2200 and CSA Available
- Extended Warranty
- Trailer with Extended Fuel Capacity
- Over 100 Additional options



### OUTPUT RATINGS

Available Voltages At 60Hz	Standby		Prime	
	kW	kVA	kW	kVA
Single Phase, 1.0 Power Factor 110/220, 120/240	24	24	22	22
Three Phase, 0.8 Power Factor 120/240, 120/208, 277/480 *Other voltages available	32	40	29	36

### PERKINS ENGINE

The Perkins 404D-22TAG is a compact, turbocharged industrial diesel engine designed for dependable power in generator applications. Delivering strong performance with excellent fuel efficiency, it is well-suited for both prime and standby use. This 4-cylinder engine is built for durability, offering smooth, quiet operation and extended service intervals to keep operating costs low. Backed by Perkins' global warranty and extensive service network, the 404D-22TAG ensures reliable operation and easy access to parts and support wherever your equipment is in service.

### OUR ALTERNATORS

Triton Generators are equipped with Stamford and 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>	Perkins
<i>Model</i>	404D-22TAG
<i>Tier Rating</i>	Tier 4i
<i>Engine Speed (RPM)</i>	1800
<i>Engine Power Output at rated RPM</i>	36.4 kWm / 48.81 HP
<i>Cooling</i>	Radiator Cooled
<i>Aspiration</i>	Turbocharged and Air to Air Charged
<i>Total Displacement (Liter)</i>	2.216
<i>No. of Cylinders and Build</i>	4, Vertical In Line
<i>Bore and Stroke</i>	84 x 100
<i>Compression Ratio</i>	23.3:1
<i>Governor</i>	Electronic
<i>Fuel Consumption (L/hr)</i>	
<i>Full Load</i>	8.9
<i>75% Load</i>	6.5
<i>50% Load</i>	4.6
<i>Oil Capacity (Liter)</i>	10.6
<i>Coolant Capacity (Liter)</i>	7

## ALTERNATOR INFORMATION

<i>Manufacturer</i>	Leroy Somer
<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%

## DEEP SEA 7310 DIGITAL CONTROLLER

- Adaptable for a wide variety of single gen-set applications, supporting diesel, gas and petrol engines.
- Monitors engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, giving you comprehensive engine and alternator protection.
- Easy USB configuration via the DSE PC Suite or directly through the controller's panel.
- Additional Synchronization Model (DSE8610) available upon request on customized equipment.



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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

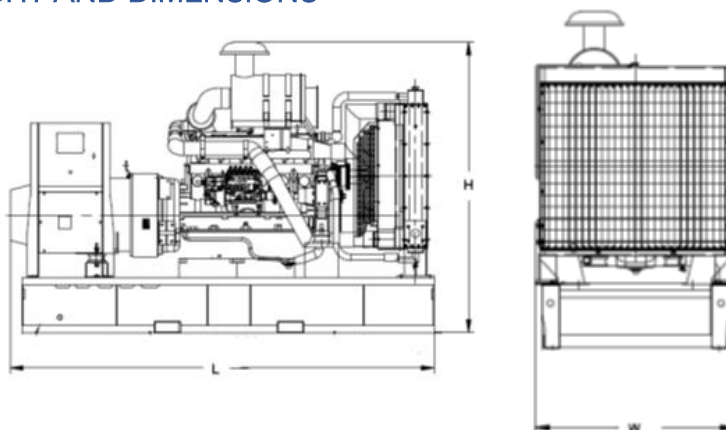
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## WEIGHT AND DIMENSIONS

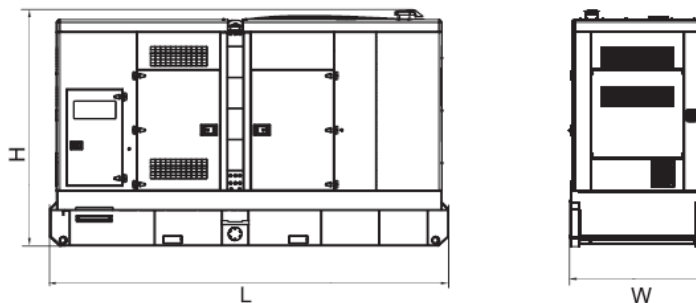
### Skid Mounted

Length in (mm)	78.8" (2000)
Width in (mm)	41.3" (1050)
Height in (mm)	41.3" (1050)
Dry Weight Lbs (kg)	1,325 (600)
Fuel Tank Gal (L)	Inquire



### Enclosed

Length in (mm)	88.6" (2250)
Width in (mm)	43.5" (1105)
Height in (mm)	50.4" (1280)
Dry Weight Lbs (kg)	1,875 (850)
Fuel Tank Gal (L)	Inquire



\*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.

TRITON POWER CORP  
8511 NW 61 STREET MIAMI, FL USA  
305-592-6300 Fax: 305-592-5900  
email: [info@tritonpower.com](mailto:info@tritonpower.com)  
website: [tritonpower.com](http://tritonpower.com)

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