20 kW Triton Diesel Generator – UL2200 Listed

TP-P20-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	Standby		Prime	
At 60Hz	kW	kVA	kW	kVA
Single Phase, 1.0 Power Factor 110/220, 120/240	18	18	16	16
*Three Phase, 0.8 Power Factor 120/240, 120/208, 277/480 *Other voltages available*	20	25	17	21

PERKINS ENGINE

The Perkins 404D-22G is a compact and dependable industrial diesel engine, trusted for its reliable performance in generator applications. Designed for efficiency and long service life, it delivers consistent power while keeping fuel consumption low. Its durable construction and proven technology make it ideal for continuous or standby use in demanding environments. Backed by Perkins' global warranty and extensive service network, the 404D-22G ensures you have the support and parts you need anywhere in the world, providing peace of mind and dependable power for years to come.

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

Engine Make	Perkins
Model	404D-22G
Tier Rating	Tier 4i
Engine Speed (RPM)	1800
Engine Power Output at rated RPM	24.3 kWm / 32.57 HP
Cooling	Radiator Cooled
Aspiration	Turbocharged and Air to Air
Total Displacement (Liter)	2.216
No. of Cylinders and Build	4, Vertical In Line
Bore and Stroke	84 x 100
Compression Ratio	23.3:1
Governor	Electronic
Fuel Consumption (L/hr)	
Full Load	6.2
75% Load	4.8
50% Load	3.5
Oil Capacity (Liter)	10.6
Coolant Capacity (Liter)	7

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%

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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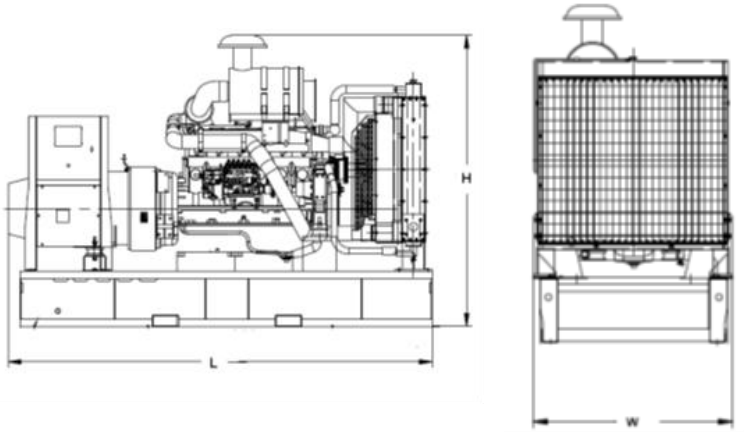
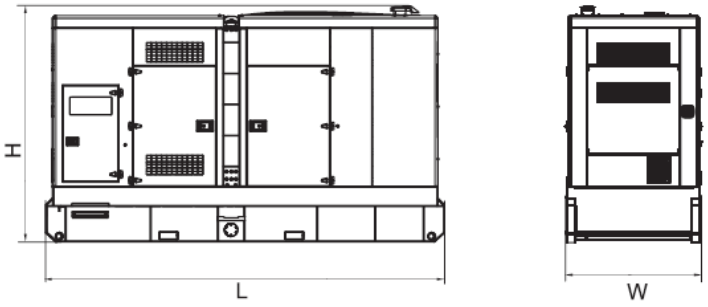
WEIGHT AND DIMENSIONS

Skid Mounted	
Length in (mm)	78.8" (2000)
Width in (mm)	41.3" (1050)
Height in (mm)	41.3" (1050)
Dry Weight Lbs (kg)	1,170 (530)
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)	1,720 (780)
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.

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