100 kW Triton Diesel Generator – UL2200 Certified

TP-P100-T3-S-UL-V3

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
- ✓ UL2200 Listed

OPTIONS:

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

OUTPUT RATINGS

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 *Other Voltages Available*	100	125	90	113

OUR ENGINES

The Perkins 1104D-E44TAG2 is a four-cylinder, turbocharged and air-to-air aftercooled diesel engine engineered for higher-output performance and Tier 3 emissions compliance in demanding power generation applications. Operating at 1800 rpm, it delivers 117 kWm (156.8 hp), providing excellent fuel efficiency, strong power density, and long-term durability. At Triton Power, we rely on engines like the Perkins 1104D-E44TAG2 because they ensure reliable power delivery, reduced environmental impact, and the assurance of Perkins' worldwide parts and service network—making them an exceptional choice for both prime and standby generator sets.

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.

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice. All photos are representative and may not reflect exact model

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ENGINE INFORMATION

Engine Make	Perkins
Model	1104D-E44TAG2
Tier Rating	Tier 3
Engine Speed (RPM)	1800
Engine Power Output at rated RPM	117 kWm / 156.8 HP
Cooling	Radiator Cooled
Aspiration	Turbocharged
Total Displacement (Liter)	4.4
No. of Cylinders and Build	4, in line
Bore and Stroke(mm)	105 x 127
Compression Ratio	16.2:1
Governor	Electrical
Fuel Consumption (L/hr)	
Full Load	27.7
75% Load	22
50% Load	16
Oil Capacity (Liter)	8
Coolant Capacity (Liter)	17

ALTERNATOR INFORMATION

Manufacturer	Leroy Somer - LSA44.3S5
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 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.
- Standard units include models DSE4520 or DSE4510. Additional models for AutoStart (DSE73XX and DSE74XX Series) and Synchronization (DSE86XX Series) 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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