



220 KW / 275 KVA POWERED by



MODEL

TP-P275-T1-50

Triton Power is a world leader in the design, manufacture of stationary, mobile and rental generator sets and Power Modules from 10 to 2000 kW. Through our commitment to quality we manufacture with only the highest quality components from companies like Cummins, John Deere, Perkins, Marathon, and Deep Sea. All of this plus our worldwide warranty, customer service professionals, is why Triton is the **THE POWER OF QUALITY**



Available Voltage 3 Phase 220/380 Volt 50 hz Power Factor 0.8	Standby	kVA	275
		kW	220
	Prime	kVA	250
		kW	200

Standby : Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046 .

Prime : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance
- Every generator set is subject to a comprehensive test program which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories:
 - Sound Attenuated Enclosure
 - Trailer with fuel tank
 - UL Listed Fuel Tank
 - Permanent Magnet Generator
 - Electronic Governor



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ENGINE INFORMATION

ENGINE MAKE		PERKINS
Model		1306C-E87TAG5
Engine Speed	RPM	1500
Engine Power Output at rated rpm	kWm	246
	HP	330
Cooling		Radiator Cooled
Aspiration		Turbocharged & Intercooled
Total Displacement	Liter	8.7
No. of Cylinders and Build		6-inline
Bore and Stroke	mm x mm	116.6 x 135.9
Compression Ratio		16.9:1
Governor		Electronic
Fuel Consumption (L/hr)	Full Load	45.0
	75% Load	36.0
	50% Load	24.0
Standard Fuel Tank Capacity (Non-UL)	Liter	435 Open / 520 SAE
Oil Capacity	Liter	28.3
Coolant Capacity	Liter	24.2
Radiator Cooling Air	m³/min	480

<p>High Performance Productive Power Hydraulically actuated Electronically controlled Unit Injectors – high-pressure fuel injection gives consistent, reliable high performance. Constant electronic engine management and monitoring enable precise fuel metering and injection timing to ensure reliable low temperature starting, superb economy with performance and very close governing.</p> <p>Quiet, Clean Power A rigid structure minimizes noise transmission and helically cut gears provide quiet power transfer to auxiliaries. Forced induction and electronic fuel injection control combine to reduce combustion noise while electronically optimized fuel/air mixing ensures complete combustion resulting in virtually smoke free operation with emissions capability matching current and future emissions legislation.</p>	<p>Durable Power A fully balanced induction-hardened steel crankshaft gives smooth performance with minimized bearing loads. Oil cooled pistons with keystone top and second rings give longer life while positive rotational valves and roller cam followers reduce wear on valve seats, tappets and cam lobes.</p> <p>Reliable Power Cylinder head coolant is directed to valve bridges and injectors and lubricating oil is cooled in a high efficiency oil cooler, both features enhancing engine reliability. Electronic safety shutdown option protects the engine while event and fault warning codes protect operations.</p>
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CONTROLLER INFORMATION DEEP SEA MODEL 7420

The DSE7420 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. A sophisticated module monitoring an extensive number of engine parameters, the DSE74xx will annunciate warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LED, remote PC, audible alarm and via SMS text alerts. The module includes RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion.

MAIN FEATURES:



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| <ul style="list-style-type: none"> • Configurable inputs (11) • Configurable outputs (8) • Voltage measurement • Mains (utility) failure detection • Dedicated load test button • kW overload alarms • Comprehensive electrical protection • RS232, RS485 & Ethernet remote communications • Modbus RTU/TCP • PLC functionality • Multi event exercise timer • Back-lit LCD 4-line text display • Multiple display languages • Automatic start/Manual start • Audible alarm • Fixed and flexible LED indicators • Event log (250) • Engine protection • Fault condition notification to a designated PC • Front panel mounting • Protected front panel programming • Configurable alarms and timers • Configurable start and stop timers • Five key menu navigation • Front panel editing with PIN protection • 3 configurable maintenance alarms • CAN and Magnetic Pick-up/Alt. sensing | <ul style="list-style-type: none"> • Fuel usage monitor and low fuel alarms • Charge alternator failure alarm • Manual speed control (on compatible CAN engines) • Manual fuel pump control • “Protections disabled” feature • Reverse power protection • Power monitoring (kW h, kV Ar, kV A h, kV Ar h) • Load switching (load shedding and dummy load outputs) • Automatic load transfer • Unbalanced load protection • Independent Earth Fault trip • Fully configurable via DSE Configuration Suite PC software • Configurable display languages • Remote SCADA monitoring via DSE Configuration Suite PC software • Advanced SMS messaging (additional external modem required) • Start & stop capability via SMS messaging • Additional display screens to help with modem diagnostics • DSENet® expansion compatible • Integral PLC editor |
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BENEFITS

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| <ul style="list-style-type: none"> • RS232, RS485 & Ethernet can be used at the same time • DSENet® connection for system expansion • PLC functionality • Five step dummy load support • Five step load shedding support | <ul style="list-style-type: none"> • Worldwide language support • Direct USB connection to PC • Ethernet monitoring • USB host • Data logging & trending |
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OPERATION

The module is operated using the front STOP/RESET, MANUAL, AUTO, TEST and START pushbuttons. An additional pushbutton next to the LCD display is used to scroll through the modules metering displays.



ALTERNATOR INFORMATION

Manufacturer	Leroy Somer - LSA46.2L6
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%

STANDARD ITEMS

- Mainline Circuit Breaker
- Generator Set mounted on Heavy Duty Steel Base Frame
- Anti-Vibration Pads between Engine/Alternator and Frame
- 8 to 10 Hour Base Fuel Tank (up to 600 kW)
- Forklift Pockets within Base Frame (up to 400 kW)
- Battery Charging Alternator

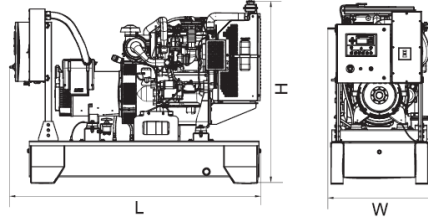
OPTIONAL ITEMS

ENGINE OPTIONS	<ul style="list-style-type: none"> • Engine Block Heater • Racor Fuel Water Separator • Oil Heater
ALTERNATOR OPTIONS	<ul style="list-style-type: none"> • Permanent Magnet Generator • Anti-Condensation Heater • Oversized Alternator (Motor Starting)
OTHER OPTIONS	<ul style="list-style-type: none"> • Sound Attenuated Enclosure with Critical Silencer (70 db at 7 meters) • Trailer (with or without fuel tank) • UL-142 Base Mounted Fuel Tank • Residential or Critical Grade Silencer

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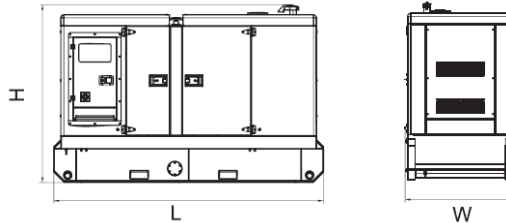


WEIGHT AND DIMENSIONS



SKID MOUNTED GENERATOR

DIMENSIONS (LxWxH)	mm	2850 x 900 x 1819
DRY WEIGHT	kg	2196



SOUND ATTENUATED GENERATOR

DIMENSIONS (LxWxH)	mm	3662 x 1351 x 1998
DRY WEIGHT	kg	3144

FEATURES AND BENEFITS OF ENCLOSURE: <ul style="list-style-type: none"> All enclosure parts are modular No welding to reduce corrosion Doors on both sides for easy maintenance All metal parts are powder coated Critical Exhaust Silencer Included Thermally insulated exhaust system Emergency stop located on exterior Easy Lifting and Moving 		
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