# 13.5 KW / 13.5 KVA
## POWERED by

| MODEL | | | TP-K15-T4-60 |
|---|---|---|---|
| **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**<br>**THE POWER OF QUALITY** | | | |
| **Available Voltage** | **Standby** | **kVA** | **13.5** |
| **Single Phase, 60Hz** | | **kW** | **13.5** |
| **Power Factor 1.0** | **Prime** | **kVA** | **12** |
| **110/220, 120/240** | | **kW** | **12** |

**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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**All photos are representative and may not reflect exact model**

| ENGINE INFORMATION | | |
|---|---|---|
| **ENGINE MAKE** | | **KUBOTA** |
| **Model** | | **D1505-E4BG1** |
| **Tier Rating** | | **Tier 4 FINAL** |
| **Engine Speed** | **RPM** | **1800** |
| **Engine Power Output at rated rpm** | **kWm** | **18.5** |
| | **HP** | **24.8** |
| **Cooling** | | **Radiator Cooled** |
| **Aspiration** | | **Natural** |
| **Total Displacement** | **Liter** | **1.498** |
| **No. of Cylinders and Build** | | **4 Inline** |
| **Bore and Stroke** | **mm x mm** | **78 x 78.4** |
| **Compression Ratio** | | **n/a** |
| **Governor** | | **Mechanical** |
| **Fuel Consumption (L/hr) 1800 RPM** | **Full Load** | **4.1** |
| | **75% Load** | **3** |
| | **50% Load** | **2.4** |
| **Fuel Tank Capacity (Non-UL)** | **Liter** | **110** |
| **Oil Capacity** | **Liter** | **7** |
| **Coolant Capacity** | **Liter** | **2** |
| **Radiator Cooling Air** | **$m^3$/min** | **n/a** |

Compact, Efficient Power

- This Kubota Engine is the result of an intensive period of customer research that has guided the development of the range.
- The new 1.5 liter cylinder block ensures bore roundness is maintained under the pressures of operation. It also ensures combustion and mechanical noise is lowered.
- A new cylinder head has re-established Kubota mastery of air control.

Quality by Design

- Product design and Class A manufacturing improvements enhance product reliability while maintaining Kubota legendary reputation for durability.

Cost Effective Power

- Compact size and low noise.
- Lower fuel consumption and oil use.
- 500 hour service intervals.
- 1 year warranty.

Product Support

- Total worldwide service is provided through a network of 4,000 distributors and dealers.

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# CONTROLLER INFORMATION
# DEEP SEA MODEL 7420

The DSE7420 is a control module for single gen-set applications. The module incorporates a number of advanced features to meet the most demanding on-site applications. The DSE7420 is an Automatic Start Control Module designed to start and stop diesel and gas generating sets that include electronic and non-electronic engines. The module includes USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for expansion device connectivity. The modules are simple to operate and feature a simple menu layout for improved clarity. Enhanced features include a real time clock for enhanced event and performance monitoring, Ethernet communications for low cost monitoring, dual mutual standby to reduce engine wear and tear, and preventative maintenance features to detect engine part faults prior to a major problem occurring.

## MAIN FEATURES:

NEW FEATURES
- Neutral position on breakers
- Mains current protection
- Improved mains detection 3phase 3 wire
- Additional programmable logic
- Improved modem diagnostics
- Remote control sources (10) can be accessed via SCADA
- Additional electrical trip options
- Additional start delay functions
- Oil pressure values from additional engines
- Front panel editing of scheduler
- Now displays kW as % of rated kW setting

STANDARD FEATURES
- Backed up real time clock
- True dual mutual standby with load balancing timer
- Ethernet communications
- Multiple date and time maintenance scheduler
- 132 x 64 pixel LCD display
- Configurable display languages
- Programmable event logging (250), showing reason, date and time
- Robust module enclosure
- Five key menu navigation
- Durable soft touch membrane buttons
- Fully configurable via PC software

- LED and LCD alarm indication
- Engine exercise mode
- Configurable start & fuel outputs
- kWh monitoring
- Automatic load transfer
- (11)Configurable inputs
- (8) Configurable outputs
- Configurable timers and alarms
- Modbus RTU / TCP
- Magnetic pick-up

Selected front panel programming
- Multiple date and time exercise scheduler
- Configurable display pages
- Programmable load shedding/acceptance
- Mutual standby
- Preventative maintenance
- kW overload protection
- 3 alternative configurations
- Unbalanced load protection
- SMS messaging (external modem required)
- Power save mode
- Security levels - PC software has password system to control access to PC software features
- Configuration file downloads from an external memory device
- RS232 & RS485 communications
- DSENet® compatible

## BENEFITS

- 132 x 64 pixel ratio makes information easy to read
- Real time clock provides accurate event logging
- PC software is license free
- Set maintenance periods can be configured to maintain optimum engine performance
- Ethernet communications provides advanced remote monitoring at low cost
- Modules can be integrated into building management systems
- Preventative maintenance avoids expensive engine down time
- Advanced PCB layout ensures high reliability

## 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.

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| 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% |

## 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 | • Engine Block Heater<br>• Racor Fuel Water Separator<br>• Oil Heater |
| ALTERNATOR OPTIONS | • Permanent Magnet Generator<br>• Anti-Condensation Heater<br>• Oversized Alternator (Motor Starting) |
| OTHER OPTIONS | • Sound Attenuated Enclosure with Critical Silencer (70 db at 7 meters)<br>• Trailer (with or without fuel tank)<br>• UL-142 Base Mounted Fuel Tank<br>• Residential or Critical Grade Silencer |

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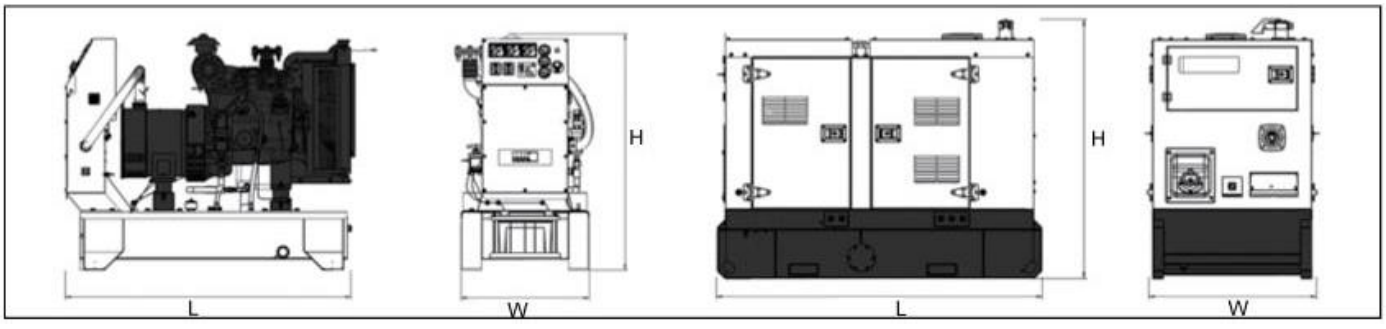
# WEIGHT AND DIMENSIONS




| SKID MOUNTED GENERATOR | | |
|---|---|---|
| DIMENSIONS (LxWxH) | mm | Inquire |
| DRY WEIGHT | kg | Inquire |

| SOUND ATTENUATED GENERATOR | | |
|---|---|---|
| DIMENSIONS (LxWxH) | mm | 1800 x 865 x 1278 |
| DRY WEIGHT | kg | 704 |

FEATURES AND BENEFITS OF ENCLOSURE:

- 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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