




**50 KW / 62.5 KVA  
POWERED by**



<b>MODEL</b>		<b>TP-C50-T1-60</b>	
<p>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 <b>THE POWER OF QUALITY</b></p>			
<b>Available Voltage</b>	<b>Standby</b>	<b>kVA</b>	<b>62.5</b>
<b>3 Phase</b>		<b>kW</b>	<b>50</b>
<b>120/208, 110/220, 120/240, 277/480</b>	<b>Prime</b>	<b>kVA</b>	<b>56</b>
<b>Power Factor 0.8</b>		<b>kW</b>	<b>45</b>

**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		
<b>ENGINE MAKE</b>		<b>CUMMINS</b>
<b>Model</b>		<b>S3.8-G9</b>
<b>Engine Speed</b>	<b>RPM</b>	<b>1800</b>
<b>Engine Power Output at rated rpm</b>	<b>kWm</b>	<b>59.5</b>
	<b>HP</b>	<b>80</b>
<b>Cooling</b>		<b>Turbocharged</b>
<b>Aspiration</b>		<b>Natural</b>
<b>Total Displacement</b>	<b>Liter</b>	<b>3.8</b>
<b>No. of Cylinders and Build</b>		<b>4-inline</b>
<b>Bore and Stroke</b>	<b>mm x mm</b>	<b>97 x 128</b>
<b>Compression Ratio</b>		<b>n/a</b>
<b>Governor</b>		<b>Mechanical</b>
<b>Fuel Consumption (L/hr)</b>	<b>Full Load</b>	<b>14</b>
	<b>75% Load</b>	<b>10.5</b>
	<b>50% Load</b>	<b>7.5</b>
<b>Fuel Tank Capacity (Non-UL)</b>	<b>Liter</b>	<b>190</b>
<b>Oil Capacity</b>	<b>Liter</b>	<b>10</b>
<b>Coolant Capacity</b>	<b>Liter</b>	<b>12.5</b>
<b>Radiator Cooling Air</b>	<b>m<sup>3</sup>/s</b>	<b>2.3</b>

<p>Diesel powered generator sets remain the number-one choice for standby and emergency power systems, worldwide. Able to start and assume load in less than 10 seconds, and rated load in a single step, Cummins diesel generator sets are the epitome of rugged dependability and reliable mechanical and electrical performance. Diesel generators are also well suited to utility peaking plants, Distributed Generation (DG) facilities, peak shaving (or peak lopping), and power management at large commercial or industrial sites.</p>	<p>As a mature technology, Cummins clean and modern diesel-powered generators offer these key benefits:</p> <ul style="list-style-type: none"> <li>• Rapid product availability</li> <li>• Proven reliability and low life-cycle costs</li> <li>• High efficiency and operational flexibility</li> <li>• High quality electrical performance</li> <li>• Well-established service and fuel supply infrastructure</li> <li>• Optional factory-integrated exhaust after treatments reduce emissions for high-hour use in environmentally sensitive locations.</li> </ul>
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## CONTROLLER INFORMATION DEEP SEA MODEL 4520

The DSE4510 Auto Start Control Module and the DSE4520 Auto Mains (Utility) Failure Control Module are suitable for a wide variety of single gen-set applications. Whilst maintaining functions included within higher end controllers, such as generator or load power monitoring, the DSE45xx range of especially compact controllers provide the user with the ultimate size to feature ratio. Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules will give comprehensive engine and alternator protection. This will be indicated on the largest back-lit LCD icon display in its class via an array of warning, electrical trip and shutdown alarms.

### MAIN FEATURES:



### KEY BENEFITS

- Ultimate size to feature ratio
- Automatically transfers between mains (utility) and generator (DSE4520 only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Compatible with a wide range of CAN engines
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

### KEY FEATURES

- Alternator frequency & CAN speed sensing in one variant
- Largest back-lit icon display in its class
- Heated display option
- Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE4520 only)
- Compatible with 600 V ph to ph nominal systems
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- Generator overload protection (kW)
- Generator/load current monitoring and protection
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs (2 for DSE4510)
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs
- Configurable staged loading outputs
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping



## ALTERNATOR INFORMATION

Manufacturer	Stamford
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

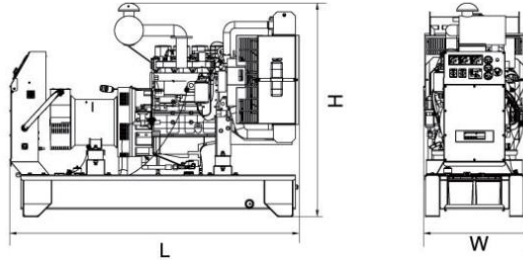
## OPTIONAL ITEMS

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

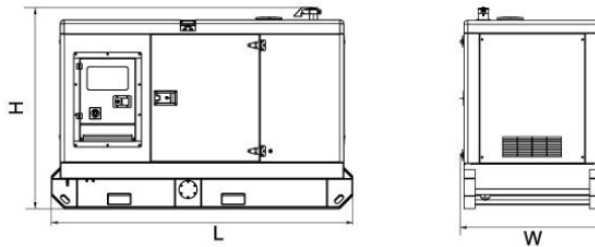
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# WEIGHT AND DIMENSIONS



SKID MOUNTED GENERATOR		
DIMENSIONS (LxWxH)	mm	2220 x 1452 x 1000
DRY WEIGHT	kg	1,536



SOUND ATTENUATED GENERATOR		
DIMENSIONS (LxWxH)	mm	3154 x 1020 x 1816
DRY WEIGHT	kg	2,067

**FEATURES AND BENEFITS OF ENCLOSURE:**

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