

# Offshore Generator - 800kVA

## General Specifications

- ✎ Description: **RIGSAFE DIESEL GENERATOR**
- ✎ Manufacturer: kVA Limited
- ✎ Type: K900 C
- ✎ Engine: Cummins QSK 23-G3
- ✎ Alternator: Leroy Somer LSA 50.1 S4
- ✎ Generator Output: 50-60hz
- ✎ Lifting Specification According to DNV 2.7-1



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# Offshore Generator - 800kVA

## Technical Specifications

Drive-Unit: <input type="checkbox"/> Diesel Engine	Unit Type: <b>K 900 C</b>
Driven Equipment: <input type="checkbox"/> Alternator	Rated Speed: rpm/hz <b>1500/50 1800/60</b>
Duty: <input type="checkbox"/> Prime Power	Operation/Maint. Manual: <b>Standard Issue</b>
Drive: <input type="checkbox"/> Direct	Enclosure: <b>Sound-Attenuated Container-Type</b>
Cooling: <input type="checkbox"/> Radiator	Lifting specification in accordance with: <b>DNV 2.7-1</b> when in frame
Unit is suitable for operating in: <b>SAFE-AREA OFFSHORE</b>	Noise Attenuation: <b>85 dBA within: 1mt of skid enclosure.</b>
<b>Generator set ratings</b>	
<b>50 Hz</b> Prime Power kWe (kVA) <b>641 (801)</b>	<b>50 Hz</b> Standby Power kWe (kVA) <b>702 (877)</b>
<b>60 Hz</b> Prime Power kWe (kVA) <b>691 (864)</b>	<b>60 Hz</b> Standby Power kWe (kVA) <b>767 (958)</b>
<b>Engine</b>	
Manufacturer: <b>Cummins</b>   Cylinders <b>6 in Line</b>   Disp. <b>23.15 Litre</b>   Bore: <b>170mm</b>   Stroke: <b>170mm</b>	
Engine Type: <b>QSK 23-G3</b>	Compression Ratio: <b>16.0</b>
Aspiration: <b>Turbocharged &amp; Jacket Water After-Cooled</b>	Maximum Allowable Speed: <b>2000</b>
Classification: <b>ISO 8528/1, ISO 3046/1, BS 5514/1</b>	
<b>50 Hz</b> Gross Power: kWm <b>701</b>	
<b>60 Hz</b> Gross Power: kWm <b>809</b>	
<b>Alternator</b>	
Manufacturer: <b>Leroy Somer</b>   Type: <b>LSA 50.1 S4</b>   Volts: <b>380-440V @ 50Hz</b>   Volts: <b>420 - 480V @ 60Hz</b>	
<b>50 Hz</b> Prime Power <b>925kVA @ 0.8 pf</b>	<b>50 Hz</b> Standby Power <b>1025kVA @ 0.8 pf</b>
<b>60 Hz</b> Prime Power <b>1015kVA @ 0.8 pf</b>	<b>60 Hz</b> Standby Power <b>1128kVA @ 0.8 pf</b>
Sub-Transient Reactance: T'd <b>15.5 pu</b>	Transient Reactance: X'd <b>28.2pu</b>
<b>Instrumentation and Control</b>	
Instrument Panel: <input type="checkbox"/> Skid Mounted <input type="checkbox"/> Service Hour Meter <input type="checkbox"/> Emergency Stop	
Gauges: <input type="checkbox"/> Water Temperature <input type="checkbox"/> Oil Pressure <input type="checkbox"/> Speed Indicator	
Controls: <input type="checkbox"/> Off / Manual / Auto (Local & Remote) <input type="checkbox"/> E.S.D. Interface	
Safety Systems: <input type="checkbox"/> High Engine Temperature <input type="checkbox"/> Low Oil Pressure <input type="checkbox"/> Overspeed	
Control System: <input type="checkbox"/> Manufacturer Deepsea Controls <input type="checkbox"/> Type: <b>DSE 5510</b>	
Operation Modes: <input type="checkbox"/> Suitable for AMF application <input type="checkbox"/> Synchronisation & load share between multiple sets	
Output: <input type="checkbox"/> M.C.C.B. <b>1600A</b> <input type="checkbox"/> 3-Pole <b>1600 Amp</b> <input type="checkbox"/> Protection - Long-Time/Short-Time & Instantaneous	
Earth Leakage: <input type="checkbox"/> <b>Merlin Gerin VIGEREX RH99M</b> (for main output MCB and the 3-Phase Socket Outlet)	
Socket Outlets: <input type="checkbox"/>	
<b>Dimensions / Weights</b>	
Containerised Gen-Set Located In Frame   Length: <b>6495mm</b>   Width: <b>2670mm</b>   Height: <b>3400mm</b>	
Containerised Gen-Set:   Dry Weight: <b>14390mm</b>   Wet Weight: <b>15800mm</b>	
Open Gen-Set no Enclosure: <b>5860 kG</b>	
<b>Capacity / Operations / Service</b>	
Fue Tank Cap <b>1500 Lts</b>   Oil: <b>100 Lts</b>   Coolant: <b>100 Lts</b>	
Fuel Usage: <b>50Hz - 161 Lts / Hour @ 100% duty</b>   <b>60Hz - 189 Lts / Hour @ 100% duty</b>	
Service Intervals: <b>Type (A) Oil &amp; Filter change 400 Hrs</b>	
Service Intervals: <b>Type (B) Type A-service plus injector &amp; tappet inspection/change 2,500 Hrs</b>	