

Offshore Generator - 1250kVA

General Specifications

- ✎ Description: **RIGSAFE DIESEL GENERATOR**
- ✎ Manufacturer: kVA Limited
- ✎ Type: K1400C
- ✎ Engine: Cummins KTA50-G3
- ✎ Alternator: Leroy Somer 50.1M7
- ✎ Generator Output: 50-60hz
- ✎ Lifting Specification According to DNV 2.7-1



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Technical Specifications

Drive-Unit: Diesel Engine					
Driven Equipment: Alternator	Prime Power (1500RPM) 1150kWm 1541BHP				
Duty: <input checked="" type="checkbox"/> Continuous	Prime Power (1800RPM) 1300kWm 1742BHP				
Enclosure: <input checked="" type="checkbox"/> Containerised to DNV2.7-1					
Drive: <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Gear <input type="checkbox"/> V-Belt	Rated Speed: 1500/1800				
Cooling: <input checked="" type="checkbox"/> Radiator <input type="checkbox"/> Shell & Tube <input checked="" type="checkbox"/> Air Fin	Operation/Maint. Manual: Rigsafe Units				
Noise Attenuation: 85 dBA within: 1mt of skid enclosure.	Generator Output: 50Hz 1060kWe/1325kVA				
Lifting specification in accordance with: DNV 2.7-1	Generator Output: 60Hz 1102kWe/1378kVa				
Unit is suitable for operating in: Safe-Area					
Location					
Elevation: 100 ft	Temperature Max. 125 °F	Min. 50 °F	Relative Humidity: 100 %		
Specific Atmosphere Conditions			Design Wind Velocity: Max 120 mph		
Installation: <input type="checkbox"/> On Land <input checked="" type="checkbox"/> Offshore <input checked="" type="checkbox"/> Skid <input type="checkbox"/> Foundation	<input checked="" type="checkbox"/> Non-sheltered				
Engine					
Manufacturer: CUMMINS KTA50-G3	No. of Cyl: 16	Disp./Cyl.: 50.3L	Bore: 159 mm Stroke: 159 mm		
Maximum Allowable Speed: 2100 RPM	Turbocharger: <input checked="" type="checkbox"/> Yes	Qty 2	Type: HOLSET		
Ratings at Design Speed of:	Classification: Non-Classified				
Ratings at Site:	BHP-Cont. Duty: 1500RPM 1470	BHP Standby Duty: 1645			
Ratings at Sea Level and: 125 °F	BHP-Cont. Duty: 1800RPM 1635	BHP Standby Duty: 1850			
Start System: Electric - 24V	Batteries: 4 x 12V	Rating: 200Amp/Hr			
Alternator					
Manufacturer: Leroy Somer	Type: 50.1M7	Volts: 380/440V	Hz: 50/60 Ph: 3		
RATING: 1325kVA @ 50Hz	1458kVA @ 60Hz	Prime Power	Classification: Standard		
Maximum Allowable Speed: 2250 RPM	Ingress Protection: IP21				
kVA Base Rating for Reactance Values	1325kVA @ 415V-50Hz	1458kVA @ 440V-60Hz	Time Constant		
Synchronous Reactance X_d	375	375			
Transient Reactance X'_d	26.70	26.70	0.185 sec		
Sub-Transient Reactance X''_d	14.80	14.80	0.025 sec		
Quad. Axis Reactance Z_q	1.37	1.37			
Quad. Axis Sub Transient X''_q	0.19	0.19			
Leakage Reactance X_l	0.063	0.063			
Negative Sequence X₂	0.16	0.16			
Zero Sequence X₀	0.022	0.022			
Instrumentation and Control					
Instrument Panel: <input checked="" type="checkbox"/> Skid Mounted					
Gauges: <input checked="" type="checkbox"/> Water Temperature	<input checked="" type="checkbox"/> Oil Temperature / Pressure				
Hand-Off-Auto Switch <input checked="" type="checkbox"/> Emergency Stop Switch	<input checked="" type="checkbox"/> Tachometer				
Shutdown Systems: <input checked="" type="checkbox"/> High Engine Temperature	<input checked="" type="checkbox"/> Overspeed				
<input checked="" type="checkbox"/> Low Oil Pressure	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Synchronization & Load share					
Dimensions / Weights					
Length: 6,050 mm	Height: 2850	Dry-Weight: 16,500 kG			
Width: 2,430 mm		Wet-Weight: 18,000 kG			
Capacity / Operations / Service					
Fuel: 1500 Lts	Oil: 125 Lts	Coolant: 218 Lts			
Running Hours: 7 Hrs					
Service Intervals: Full service every 250-Run-Hours					
REVISION LOG					
REVISION	ISSUE STATUS	DATE	BY	CHKD	APPD
A	For Information Only	18-Dec-08	SS		
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