

Offshore Generator - 1000kVACFG and 1000kVA

General Specifications

- ✎ Description: **RIGSAFE DIESEL GENERATOR**
- ✎ Manufacturer: kVA Limited
- ✎ Type: K1100CFG
- ✎ Engine: Cummins QST30
- ✎ Alternator: Leroy Somer 50.1S4
- ✎ Generator Output: 50-60hz
- ✎ Lifting Specification According to DNV 2.7-1



Contact us

kVA Limited
Peterseat Drive
Altens, Aberdeen
AB12 3HT
UK

T. +44 1224 899600
F. +44 1224 899789
E. Info@kva.co.uk

www.kva.co.uk

Offshore Generator - 1000kVA

Technical Specifications

Drive-Unit:	Diesel Engine		
Driven Equipment:	Alternator	Prime Power (1500RPM)	880kWm 1180BHP
Duty:	<input checked="" type="checkbox"/> Continuous	Prime Power (1800RPM)	1007kWm 1350BHP
Enclosure:	<input checked="" type="checkbox"/> Yes		
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.		
Lifting specification in accordance with:	DNV 2.7-1	Generator Output:	50Hz 824kWe/1030kVA
Unit is suitable for operating in:	Safe-Area	Generator Output:	60Hz 922kWe/1152kVa

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 QST30	No. of Cyl:	12	Disp./Cyl.:	30.48L	Bore:	140 mm	Stroke:	165 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			915	BHP Standby Duty:			1300	
Ratings at Sea Level and:	125 °F	BHP-Cont. Duty: 1800RPM			1115	BHP Standby Duty:			1490
Start System:	Electric - 24V	Batteries:	4 x 12V		Rating:	200Amp/Hr			

Alternator

Manufacturer:	Leroy Somer	Type:	50.1S4	Volts:	380/440V	Hz:	50/60	Ph:	3
RATING:	1030kVA @ 50Hz	1152kVA @ 60Hz	Prime Power		Classification: Standard				
Maximum Allowable Speed:	2250 RPM	Ingress Protection: IP21							
kVA Base Rating for Reactance Values	1025kVA @ 415V-50Hz		1066kVA @ 440V-60Hz		Time Constant				
Synchronous Reactance	Xd	381	3.00						
Transient Reactance	X'd	28.20	0.24		0.185 sec				
SubTransient Reactance	X''d	15.50	0.17		0.025 sec				
Quad. Axis Reactance	Zq	1.37	1.760						
Quad. Axis Sub Transient	X''q	0.19	0.250						
Leakage Reactance	Xl	0.063	0.081						
Negative Sequence	X2	0.18	0.240						
Zero Sequence	Xo	0.022	0.028						

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	<input checked="" type="checkbox"/> Mechanical
Shutdown Systems:	<input checked="" type="checkbox"/> High Engine Temperature	<input checked="" type="checkbox"/> Synchronization & Load share	<input checked="" type="checkbox"/> Overspeed
	<input checked="" type="checkbox"/> Low Oil Pressure		

Dimensions / Weights

Length:	6,050 mm	Height:	2850	Dry-Weight:	13,500 kG
Width:	2,430 mm			Wet-Weight:	14,800 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				

[Back to Top](#)

REVISION LOG

REVISION	ISSUE STATUS	DATE	BY	CHKD	APPD
A	For Information Only	18-Dec-08	SS		