1250kVA (KS1400CFG) Rigsafe Diesel Generator with Built-in Fire/Gas Detection System

Based in Aberdeen, the oil capital of Europe, this Portable Power division can supply diesel driven generators for rental from 30kVA to 1500kVA. The generators are built to "rigsafe" specification, designed to work in the harsh offshore environment, either on oil platforms or wind turbines. These generators can also be used onshore in various industry sectors such as construction and entertainment.

The capital sales division can supply standard off the shelf generators or project specific custom built generators and offer the full spectrum of engineering from design, fabrication and assembly through to the FAT (Factory Acceptance Test).

The service division can provide a full health care package for diesel driven generators, comprising of installation, maintenance and repair of customer owned equipment.

Generators supplied for rental have the following features:

- · Spark arrestor on engine exhaust outlet
- Chalwyn valve or Amot valve inline with engine
- · Aspiration
- External emergency stop
- · Platform interface for ESD start and stop
- (24Volt or 110Volt)
- · Unit alarms and shutdown on:
 - Low oil pressure
 - High engine temperature
 - Over speed
- Lifting certificates for unit, slings and shackles (MPI and tested)

Optional fire detection, gas detection and extinguishing system. The generators can have a fire/gas detection system installed for certain applications:

- · Heat detection
- · Smoke detection
- · Gas detection
- · Fire/gas detection panel
- · External controls and status indication
- Extinguishing system c/w internal and external pipework



Containerised Zone 2 200kVA generator



Rigsafe generators 30kVA up to 500kVA acoustic canopy c/w DNV shipping frame



Rigsafe generators 800kVA up to 1500kVA acoustic containers c/w 4 point DNV 2.7-1 lifting

The installation of a generator set must follow certain rules, which must be strictly adhered to in order to get the equipment to operate properly. Highly skilled generator engineers will carry out all works to ensure the safe installation and commissioning of your generator.



Specification Sheet

1250kVA (KS1400CFG) Rigsafe Diesel Generator with Built-in Fire/Gas Detection System

General				
Drive-unit	Diesel engine	Unit ty	pe	KS 1400 CFG
Driven equipment	Alternator	Rated s	peed	1500/50 rpm/hz; 1800/60 rpm/hz
Duty	Prime power	Operati	on/maint. manual	Standard issue
Drive	Direct	Enclosu	ire:	Container built to DNV 2.7-1
Cooling	Radiator	Lifting	specification	In accordance with DNV 2.7-1 when in frame
Unit is suitable for operating in	SAFE-AREA OFFSHORE		ttenuation	85 dBA within 1 meter of skid enclosure
Generator set ratings				
50 hz prime power	kVA (kw) 1250 (1000)	50 hz st	andby power	kVA (kw) 1406 (1120)
60 hz prime power	kVA (kw) 1375 (1100)	60 hz st	andby power	kVA (kw) 1500 (1200)
Engine				
Manufacturer	Cummins		Cylinders	V16
Disp.	50.3 litre		Bore	159 mm
Engine type	KTA50-G3		Stroke	159 mm
Aspiration	Twin turbocharged and jacket w			ed 2100
Classification	ISO 8528/1, ISO 3046/1, BS 5514	-/1	Compression Ratio	14.0:1
50 hz gross power	kWm 1227		60 hz gross power	kWm 1380
Cummins oil pan	6024		Degrees front up/down	30
Start System	Electric 24vDC		Degrees side to side	30
Batteries	4 x 12vDC 800CCA-OPTIMA RED	TOP	Rating	200 amp/hr
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Alternator				
Manufacturer	Stamford		Туре	P1734B
50 hz prime power	1400kVA @ 0.8 pf		60 hz prime power	1460kVA @ 0.8 pf
50 hz standby power	1625kVA @ 0.8 pf		60 hz standby power	1690kVA @ 0.8 pf
Sub-transient reactance	X'd 14% @ 50 hz		Transient reactance	X'd 18% @ 50 hz
Volts	380 - 440V @ 50hz; 420 - 480V @	60hz	AVR type	MX321
I				
Instrumentation and controls			0 . 1 .	
Instrument panel	Skid mounted		Service hour meter	• Emergency stop
Gauges	Water temperature	1	• Oil pressure	Speed indicator
Controls	Off/manual/auto (local a		• E.S.D. interface	-
Safety systems	High engine temperature	е	• Low oil pressure	• Overspeed
Control system	• Deepsea			-
Output	Merlin GERIN NW25H		• 4 Pole 2500Amp	Adjustable electronic protection relay
Earth leakage	Merlin Gerin VIGEREX RH		-	
Operation modes	Suitable for AMF applica	ition	Synchronisation and load sh	nare between multiple sets
Self contained fire/gas detection ar	nd C02 extingushing system			
Dimensions/weights				
Containerised gen-set dimension	ons L x W x H 6050 mm	x 2430 mm x 2	850 mm Containerised gen-	, ,
				Wet - 21000 kg
Capacities/operations/service				
•	900 lts		Service intervals	Type (A) oil and filter change - 400 hrs
	177 lts			Type (B) Type (A) service plus injector
	218 lts			and tappet inspection/change - 2,500 hrs
Fuel usage - 50 hz	261 lts/hour @ 100% duty		Fuel usage - 60 hz	291 lts/hour @ 100% duty
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199 lts/hour @ 75% duty

139 lts/hour @ 50% duty

76 lts/hour @ 25% duty



222 lts/hour @75% duty

157 lts/hour @ 50% duty

89 lts/hour @ 25% duty