

1000kVA (K1100CFG) Rigsafe Diesel Generator with Built-in Fire/Gas Detection System

CUSTOMISING PORTABLE POWER WITH PROVEN, EFFECTIVE DESIGN AND QUALITY SERVICE



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

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

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.

1000kVA (K1100CFG) Rigsafe Diesel Generator with Built-in Fire/Gas Detection System

Specifications and Dimensions

GENERAL					
Drive-Unit	Diesel Engine	Unit Type	K 1100 CFG		
Driven Equipment	Alternator	Rated Speed	1500/50 rpm/hz; 1800/60 rpm/hz		
Duty	Prime Power	Operation/Maint. Manual	Standard Issue		
Drive	Direct	Enclosure	Container built to DNV 2.7-1		
Cooling	Radiator	Lifting specification	In accordance with DNV 2.7-1 when in frame		
Suitable for operating in:	SAFE-AREA OFFSHORE	Noise Attenuation	85 dBA within 1 mt of skid enclosure		
GENERATOR SET RATINGS					
50 Hz Prime Power	kVA (kw) 1012 (809)	50 Hz Standby Power	kVA (kw) 1117 (894)		
60 Hz Prime Power	kVA (kw) 1128 (902)	60 Hz Standby Power	kVA (kw) 1260 (992)		
ENGINE					
Manufacturer	Cummins	Cylinders	V12		
Disp.	30.48 Litre	Bore	140 mm		
Engine Type	QST 30 G3	Stroke	165 mm		
Aspiration	Twin Turbocharged and Jacket Water After-Cooled	Compression Ratio	14.0 : 1		
Classification	ISO 8528/1, ISO 3046/1, BS 5514/1	Maximum Allowable Speed	2100		
50 Hz Gross Power	kWm 880	60 Hz Gross Power	kWm 1112		
Cummins Oil Pan	5133	Degrees Front Down	35		
Start System	Electric 24vDC	Degrees Side to Side	17		
Batteries	4 x 12vDC	Rating	200 Amp/Hr		
ALTERNATOR					
Manufacturer	Leroy Somer	Type	LSA 50.1 S4		
50 Hz Prime Power	1025kVA @ 0.8 pf	60 Hz Prime Power	1075kVA @ 0.8 pf		
Sub-Transient Reactance	X"d 15.5 %	Transient Reactance	X`d 28.20%		
Volts	380 - 440V @ 50Hz 420 - 480V @ 60Hz				
INSTRUMENTATION AND CONTROLS					
Instrument Panel	Skid Mounted Service Hour Meter Emergency Stop	Gauges	Water Temperature Oil Pressure Speed Indicator		
Controls	Off / Manual / Auto (Local and Remote) E.S.D. Interface	Safety Systems	High Engine Temperature Low Oil Pressure Overspeed		
Control System	Manufacturer - Deepsea Controls Type - DSE 5510	Output	M.C.C.B NS1600N 4 Pole 1600Amp Micrologic 5.0 Adjustable Electronic Protection Relay		
Earth Leakage	Merlin Gerin VIGEREX RH99M	Operation Modes	Suitable for AMF application Synchronisation and load share between multiple sets		
	<i>Self Contained Fire/Gas Detection and CO2 Extinguishing System</i>				
DIMENSIONS / WEIGHTS		L x W x H		WEIGHT	
Containerised Gen-Set		6058 mm x 2896 mm x 3048 mm		Dry - 16250 kg Wet - 17750 kg	
CAPACITY / OPERATIONS / SERVICE					
Fuel Tank Cap	1500 Lts	Service Intervals	<ul style="list-style-type: none"> Type (A) Oil and Filter change - 400 Hrs Type (B) Type (A) service plus injector and tappet inspection/change - 2,500 Hrs 		
Oil	125 Lts				
Coolant	218 Lts				
Fuel Usage - 50 Hz	202 Lts/Hour @ 100% duty 151 Lts/Hour @ 75% duty 102 Lts/Hour @ 50% duty 54 Lts/Hour @ 25% duty	Fuel Usage - 60 Hz	240 Lts/Hour @ 100% duty 177 Lts/Hour @ 75% duty 119 Lts/Hour @ 50% duty 66 Lts/Hour @ 25% duty		