## 500kVA (KF550P) Rigsafe Diesel Generator

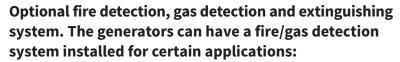
Based in Aberdeen, the oil capital of Europe, this Portable Power division can supply diesel driven generators for rental from 30kVA to 1500kVA. The generators are built to "rigsafe" specification, designed to work in the harsh offshore environment, either on oil platforms or wind turbines. These generators 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.



- · 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)



- · 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**

## 500kVA (KF550P) Rigsafe Diesel Generator

General			
Drive-unit	Diesel engine	Unit type	KF 550 P
Driven equipment	Alternator	Rated speed	1500/50 rpm/hz; 1800/60 rpm/hz
Duty	Prime power	Operation/maint. manual	Standard Issue
Drive	Direct	Enclosure:	Sound-Attenuated Canopy-Type
Cooling	Radiator	Lifting specification	In accordance with DNV 2.7-1 when in frame
Unit is suitable for operation	ng in SAFE-AREA OFFSHORE	Noise attenuation	80 dBA within 1 mt of skid enclosure
Generator set ratings			
50 hz prime power	kVA (kw) 500 (400)	50 hz standby power	kVA (kw) 550 (440)
60 hz prime power	kVA (kw) 500 (400)	60 hz standby power	kVA (kw) 550 (440)
	() 200 ()	, , ,	()
Engine		<u>,                                      </u>	
Manufacturer	Perkins	Cylinders	6 in line
Disp.	15.2 Litre	Bore	135 mm
Engine Type	2506C-E15TAG2 EU Stage II Emissions C	<b>Stroke</b> ompliant	167 mm
Aspiration	Turbocharged Air to Air	Charge Cooled Compression Rat	tio 16.0:1
Classification	ISO 8528/1, ISO 3046/1,	BS 5514/1 Maximum Allowa	able Speed 2000
50 Hz Gross Power	kWm 451	60 Hz Gross Powe	er kWm 458
Alternator			
Manufacturer	Olympian	Type	LL6114F
50 Hz Prime Power		Type	
	510kVA @ 415V 0.8 pf	60 Hz Prime Pow	<u> </u>
50 Hz Standby Power	510kVA @ 415V 0.8 pf <b>60 Hz Standby Po</b>		
Reactance per Unit	Xd 2.85, X`d 0.15, X"d 0.103 Alternator is suitable for severe industrial environment, marine and coastal areas.		
Volts	380 - 440V @ 50Hz 420 - 480V @ 60Hz		
	120 1001 @ 00112		
Instrumentation and Conti	rols		
Instrument Panel	Skid Mounted	Gauges	Water Temperature
	Service Hour Meter Emergency Stop		Oil Pressure Speed Indicator
Controls	Off / Manual / Auto (Local and E.S.D. Interface	Remote) Safety Systems	High Engine Temperature Low Oil Pressure Overspeed
Control System	Manufacturer - Woodward Type - EasyGen 3000	Output	M.C.C.B ABB TMAX 6N 800 4 Pole 800Amp Protection - ABB PR221DS Electronic Protec- tion Relay
Earth Leakage	Adjustable Range 30-100mA c/ x100 multiplier. Adjustable tim		N/A
Operation Modes	Suitable for AMF application		
Dimensions / Weights	LxWxH		Weight
Onshore Unit	4990 mm x 1699 mm	x 2338 mm	Dry - 5590 kg Wet - 6241 kg
Offshore Unit	5490 mm x 2199 mm	x 3230 mm	Dry - 7690 kg Wet - 8341 kg
		Dry Weig	ghts are given with oil and coolant but excluding fuel.
Canacity / Operations / Sam	vice		
Capacity / Operations / Ser		6 d 1 1	Ja Tune (A) Oil and Filter shares 400 / 1
Fuel Tank Cap Oil	939 Lts 62 Lts	Service Interva	Ils Type (A) Oil and Filter change - 400 Hrs Type (B) Type (A) service plus injector and
Coolant	38.3 Lts		tappet inspection/change - 2,500 Hrs
Fuel Usage - 50 Hz	102.4 Lts/Hour @ 100% duty 78.4 Lts/Hour @ 75% duty 53.4 Lts/Hour @ 50% duty		

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