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.



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Specifications and Dimensions

GENERAL				
Drive-Unit	Diesel Engine	Unit Type	KF 110 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	
Suitable for operating in:	SAFE-AREA OFFSHORE	Noise Attenuation	65.2 dBA within 7 mt of skid enclosure	
GENERATOR SET RATINGS				
50 Hz Prime Power	kVA (kw) 100 (80)	50 Hz Standby Power	kVA (kw) 110 (88)	
60 Hz Prime Power	kVA (kw) 113 (90.4)	60 Hz Standby Power	kVA (kw) 125 (100)	
	KW (KW) 113 (30.4)	ou nz standby rower	KW/(KW) 123 (100)	
ENGINE				
Manufacturer	Perkins	Cylinders	4 in line	
Disp.	4.4 Litre	Bore	105 mm	
Engine Type	1104C-44TAG2 EU Stage II Emissions Compliant	Stroke	127 mm	
Aspiration	Turbocharged Air to Air Charge Cooled	Compression Ratio	18.3:1	
Classification	ISO 8528/1, ISO 3046/1, BS 5514/1	Maximum Allowable Speed	2000	
50 Hz Gross Power	kWm 93.5	60 Hz Gross Power	kWm 105	
ALTERNATOR				
Manufacturer	Olympian	Туре	LL3014B	
50 Hz Prime Power	110kVA @ 415V 0.8 pf	60 Hz Prime Power	127kVA @ 440V 0.8 pf	
50 Hz Standby Power	110kVA @ 415V 0.8 pf	60 Hz Standby Power	127kVA @ 440V 0.8 pf	
Reactance per Unit	Xd 3.51, X`d 0.140, X"d 0.082	Alternator is suitable for severe	industrial environment, marine and coastal areas.	
Volts	380 - 440V @ 50Hz 380 - 480V @ 60Hz			
INSTRUMENTATION AND CO	DNTROLS			
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 - FG Wilson Type - 4001	Output	M.C.C.B ABB TMAX 4 Pole 200 Amp Protection - ABB PR221DS Electronic Protection Relay	
Earth Leakage	Adjustable Range 30-100mA c/w x1, x10, x10 with the second state with the second state and the second state with the second state wi	Socket Outlets	(1Ph) 3 x 16A 240V, (3Ph) 3 x 32A 415/440V 5 Pin 2 x 63A 415/440V 5 Pin	
Operation Modes	Suitable for AMF application			
DIMENSIONS / WEIGHTS	L x W x H		WEIGHT	
Onshore Unit	3280 mm x 1130 mm x 2060 mm	Dry -	2400 kg Wet - 3100 kg	
Offshore Unit	4680 mm x 1800 mm x 3160 mm	Dry -	Dry - 3900 kg Wet - 4600 kg	
		Dry Weights are given with oil and coolant but excluding fuel.		
CAPACITY / OPERATIONS / S	SERVICE			
Fuel Tank Cap	935 Lts	Service Intervals	• Type (A) Oil and Filter change - 400 Hrs	
Oil	26.5 Lts		• Type (B) Type (A) service plus injector and	
Coolant Fuel Usage - 50 Hz	11 Lts 22.6 Lts/Hour @ 100% duty 17.1 Lts/Hour @ 75% duty 11.2 Lts/Hour @ 50% duty		tappet inspection/change - 2,500 Hrs	



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