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.



500kVA (K550PE) Rigsafe Diesel Generator

Specifications and Dimensions

Diesel Engine	Unit Type	K 550 PE
Alternator	Rated Speed	1500/50 rpm/hz; 1800/60 rpm/hz
Prime Power	Operation/Maint. Manual	Standard Issue
Direct	Enclosure	Sound-Attenuated Canopy-Type
Radiator	Lifting specification	In accordance with DNV 2.7-1 when in frame
SAFE-AREA OFFSHORE	Noise Attenuation	85 dBA within 1 mt of skid enclosure
kVA (kw) 500 (400)	50 Hz Standby Power	kVA (kw) 550 (440)
kVA (kw) 500 (400)	60 Hz Standby Power	kVA (kw) 563 (450)
Perkins	Cylinders	6 in line
15 Litre	Bore	137 mm
2506C-E15TAG2	Stroke	171 mm
Twin Turbocharged and Jacket Water After-Cooled	Compression Ratio	16.1:1
ISO 8528/1, ISO 3046/1, BS 5514/1	Maximum Allowable Speed	2000
kWm 451	60 Hz Gross Power	kWm 458
Electric 24vDC	Batteries	2 x 12vDC
Leroy Somer	Type	LSA 47.2M7 C 6/4
	71	570kVA @ 400v; 0.8 pf
		690kVA @ 440v; 0.8 pf
T'd 100ms	Transient Reactance	X`d 15.9ms
380 - 440V @ 50Hz 420 - 480V @ 60Hz		
NTROLS		
Skid Mounted	Gauges	Water Temperature
Service Hour Meter Emergency Stop		Oil Pressure Speed Indicator
Off / Manual / Auto (Local and Remote) E.S.D. Interface	Safety Systems	High Engine Temperature Low Oil Pressure Overspeed
Manufacturer - Deepsea Controls Type - DSE 7510	Output	M.C.C.B NS800N 3 Pole 800Amp Protection - Long-Time/Short-Time
Merlin Gerin VIGEREX RH99M	Operation Modes	Suitable for AMF application Synchronisation and load share between multiple sets
LxWxH		WEIGHT
4800 mm x 1900 mm x 2655 mm	Dry - 6	6430 kg Wet - 9795 kg
ne 5490 mm x 2199 mm x 3230 mm	Dry - 8	540 kg Wet - 11895 kg
ERVICE		
1750 Lts	Service Intervals	• Type (A) Oil and Filter change - 400 Hrs
62 Lts 58 Lts		 Type (B) Type (A) service plus injector and tappet inspection/change - 2,500 Hrs
106 Lts/Hour @ 100% duty 81 Lts/Hour @ 75% duty	Fuel Usage - 60 Hz	100 Lts/Hour @ 100% duty 77 Lts/Hour @ 75% duty 55 Lts/Hour @ 50% duty
	Alternator Prime Power Direct Radiator SAFE-AREA OFFSHORE kVA (kw) 500 (400) kVA (kw) 500 (400) Perkins 15 Litre 2506C-E15TAG2 Twin Turbocharged and Jacket Water After-Cooled ISO 8528/1, ISO 3046/1, BS 5514/1 kWm 451 Electric 24vDC Leroy Somer 500kVA @ 400v; 0.8 pf 630kVA @ 400v; 0.8 pf T'd 100ms 380 - 440V @ 50Hz 420 - 480V @ 60Hz NTROLS Skid Mounted Service Hour Meter Emergency Stop Off / Manual / Auto (Local and Remote) E.S.D. Interface Manufacturer - Deepsea Controls Type - DSE 7510 Merlin Gerin VIGEREX RH99M ERVICE 1750 Lts 62 Lts 58 Lts 106 Lts/Hour @ 100% duty	Alternator Rated Speed Prime Power Operation/Maint. Manual Direct Enclosure Radiator Lifting specification SAFE-AREA OFFSHORE Noise Attenuation KVA (kw) 500 (400) 50 Hz Standby Power KVA (kw) 500 (400) 60 Hz Standby Power Perkins Cylinders 15 Litre Bore 2506C-E15TAG2 Stroke Twin Turbocharged and Jacket Water After-Cooled Compression Ratio ISO 8528/1, ISO 3046/1, BS 5514/1 Maximum Allowable Speed kWm 451 60 Hz Gross Power Electric 24vDC Batteries Leroy Somer Type 500kVA @ 400v; 0.8 pf 60 Hz Prime Power 630kVA @ 400v; 0.8 pf 60 Hz Standby Power T'd 100ms Transient Reactance NTROLS Skid Mounted Service Hour Meter Emergency Stop Off / Manual / Auto (Local and Remote) E.S.D. Interface Safety Systems E.S.D. Interface Output Merlin Gerin VIGEREX RH99M Operation Modes Lx W X H 4800 mm x 1900 mm x 2655 mm Dry - 8 ERVICE 1750 Lts 62 Lts 58 Lts 106 Lts/Hour @ 75% duty Fuel Usage - 60 Hz Its/Hour @ 75% duty Fuel Usage - 60 Hz



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