

Offshore Generator - 500kVA

General Specifications

- Description: **RIGSAFE DIESEL GENERATOR**
- Manufacturer: kVA Limited
- Type: K600 C
- Engine: Cummins Q5X15-G8
- Alternator: Leroy Somer LSA 47.2
- Generator Output: 50-60hz
- Lifting Specification According to DNV 2.7-1



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Technical Specifications

Drive-Unit: ■ Diesel Engine	Unit Type: K 600 C			
Driven Equipment: ■ Alternator	Rated Speed: rpm/hz 1500/50 1800/60			
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 operating in: SAFE-AREA OFFSHORE	Noise Attenuation: 80 dBA within: 1mt of skid enclosure.			
Generator set ratings				
50 Hz Prime Power kWe (kVA) 408 (510)	50 Hz Standby Power kWe (kVA) 454 (567)			
60 Hz Prime Power kWe (kVA) 383 (479)	60 Hz Standby Power kWe (kVA) 429 (479)			
Engine				
Manufacturer: Cummins	Cylinders 6 in Line	Disp. 15 Litre	Bore: 137mm	Stroke: 169mm
Engine Type: QSX15-G8	Compression Ratio			17.1
Aspiration: Turbocharged & Jacket Water After-Cooled	Maximum Allowable Speed: 2000			
Classification: ISO 8528/1, ISO 3046/1, BS 5514/1				
50 Hz Gross Power: kWm	585			
60 Hz Gross Power: kWm	436			
Alternator				
Manufacturer: Leroy Somer	Type: LSA 47.2	Volts: 380-440V @ 50Hz	Volts: 420 - 480V @ 60Hz	
50 Hz Prime Power 500kVA @ 0.8 pf	50 Hz Standby Power		545kVA @ 0.8 pf	
60 Hz Prime Power 610kVA @ 0.8 pf	60 Hz Standby Power		651kVA @ 0.8 pf	
Sub-Transient Reactance: T'd 10 pu	Transient Reactance: X'd 15.9 pu			
Instrumentation and Control				
Instrument Panel: ■ Skid Mounted	■ Service Hour Meter	■ Emergency Stop		
Gauges: ■ Water Temperature	■ Oil Pressure	■ Speed Indicator		
Controls: ■ Off / Manual / Auto (Local & Remote)	■ E.S.D. Interface			
Safety Systems: ■ High Engine Temperature	■ Low Oil Pressure	■ Overspeed		
Control System: ■ Manufacturer: Deepsea Controls	■ Type: DSE 5510			
Operation Modes: ■ Island Mode	■			
Output: ■ M.C.C.B. NS800N	■ 3-Pole 400 Amp	■ Protection - Long-Time/Short-Time & Instantaneous		
Earth Leakage: ■ Merlin Gerin VIGEREX RH99M	(for main output MCB and the 3-Phase Socket Outlet)			
Socket Outlets: ■				
Dimensions / Weights				
Enclosed Gen-Set:	Length: 4800mm	Width: 2000mm	Height: 2500mm	
Enclosed Gen-Set in DNV Frame	Length: 5150mm	Width: 2300mm	Height: 3275mm	
Open Gen-Set no Enclosure: 3020 kG	Enclosed Gen-Set: 6800 kG	Enclosed Gen-Set in DNV Frame		8925 kG
Capacity / Operations / Service				
Fue Tank Cap: 1200 Lts	Oil: 24 Lts	Coolant: 25 Lts		
Fuel Usage:	50Hz - 103 Lts / Hour @ 100% duty		60Hz - 123 Lts / Hour @ 100% duty	
Service Intervals: Type (A)	Oil & Filter change 400 Hrs			
Service Intervals: Type (B)	Type A-service plus injector & tappet inspection/change 2,500 Hrs			