

Offshore Generator - 100kVA

General Specifications

- ✎ Description: **RIGSAFE DIESEL GENERATOR**
- ✎ Manufacturer: kVA Limited
- ✎ Type: K120C
- ✎ Engine: Cummins 6BT5.9 G6
- ✎ Alternator: Leroy Somer LSA 44.2 Vs4
- ✎ Generator Output: 50-60hz
- ✎ Lifting Specification According to DNV 2.7-1



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Technical Specifications

| | | | | |
|--|--|---|--------------------------------------|----------------------|
| Drive-Unit: <input checked="" type="checkbox"/> Diesel Engine | Unit Type: K 120 C | | | |
| Driven Equipment: <input checked="" type="checkbox"/> Alternator | Rated Speed: rpm/hz 1500/50 1800/60 | | | |
| Duty: <input checked="" type="checkbox"/> Prime Power | Operation/Maint. Manual: Standard Issue | | | |
| Drive: <input checked="" type="checkbox"/> Direct | Enclosure: Sound-Attenuated Canopy-Type | | | |
| Cooling: <input checked="" type="checkbox"/> 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) 86 (107) | 50 Hz Standby Power kWe (kVA) 95 (119) | | | |
| 60 Hz Prime Power kWe (kVA) 99 (123) | 60 Hz Standby Power kWe (kVA) 95 (119) | | | |
| Engine | | | | |
| Manufacturer: Cummins | Cylinders 6 in Line | Disp. 8.8 Litre | Bore: 102mm | Stroke: 120mm |
| Engine Type: 6BT5.9-G6 | | | Compression Ratio: 16.5 : 1 | |
| Aspiration: Turbocharged | | | Maximum Allowable Speed: 2000 | |
| Classification: ISO 8528/1, ISO 3046/1, BS 5514/1 | | | | |
| 50 Hz Gross Power: kWm 97 | | | | |
| 60 Hz Gross Power: kWm 115 | | | | |
| Alternator | | | | |
| Manufacturer: Leroy Somer | Type: LSA 44.2VS4 | Volts: 380-440V @ 50Hz | Volts: 420 - 480V @ 60Hz | |
| 50 Hz Prime Power 100kVA @ 0.8 pf | | 50 Hz Standby Power 110kVA @ 0.8 pf | | |
| 60 Hz Prime Power 115kVA @ 0.8 pf | | 60 Hz Standby Power 125kVA @ 0.8 pf | | |
| Sub-Transient Reactance: T'd 10 | | Transient Reactance: X'd 12.80 | | |
| Instrumentation and Control | | | | |
| Instrument Panel: <input checked="" type="checkbox"/> Skid Mounted | <input checked="" type="checkbox"/> Service Hour Meter | <input checked="" type="checkbox"/> Emergency Stop | | |
| Gauges: <input checked="" type="checkbox"/> Water Temperature | <input checked="" type="checkbox"/> Oil Pressure | <input checked="" type="checkbox"/> Speed Indicator | | |
| Controls: <input checked="" type="checkbox"/> Off / Manual / Auto (Local & Remote) | <input checked="" type="checkbox"/> E.S.D. Interface | | | |
| Safety Systems: <input checked="" type="checkbox"/> High Engine Temperature | <input checked="" type="checkbox"/> Low Oil Pressure | <input checked="" type="checkbox"/> Overspeed | | |
| Control System: <input checked="" type="checkbox"/> Manufacturer: Deepsea Controls | <input checked="" type="checkbox"/> Type: DSE 5310 | | | |
| Operation Modes: <input checked="" type="checkbox"/> Suitable for AMF application | <input checked="" type="checkbox"/> | | | |
| Output: <input checked="" type="checkbox"/> M.C.C.B NR160F | <input checked="" type="checkbox"/> 3 Pole 160Amp | <input checked="" type="checkbox"/> Protection - Long-Time/Short-Time & Instantaneous | | |
| Earth Leakage: <input checked="" type="checkbox"/> Merlin Gerin VIGEREX RH99M | (for main output MCB and the 3-Phase Socket Outlet) | | | |
| Socket Outlets: <input checked="" type="checkbox"/> 415/440V-1 x 63Amp 5-pin c/w 4 pole mcb | <input checked="" type="checkbox"/> 230/240V - 2 x 32Amp 3-pin c/w 2 pole mcb/rcd | | | |
| Dimensions / Weights | | | | |
| Enclosed Gen-Set: | Length: 2550mm | Width: 1115mm | Height: 1645mm | |
| Enclosed Gen-Set in DNV Frame | Length: 2850mm | Width: 1400mm | Height: 2425mm | |
| Open Gen-Set no Enclosure: 1200 kG | Enclosed Gen-Set: 1700 kG | Enclosed Gen-Set in DNV Frame: 3240 kG | | |
| Capacity / Operations / Service | | | | |
| Fue Tank Cap 200 Lts | Oil: 14.2 Lts | Coolant: 10 Lts | | |
| Fuel Usage: 50Hz - 20 Lts / Hour @ 100% duty | 60Hz - 24 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 | | | | |