

PERFORMANCES

| RATINGS | | 50 Hz | | 60 Hz | |
|--------------|-----|-------|----------|-------|----------|
| | | PRIME | STAND-BY | PRIME | STAND-BY |
| Rated output | kWm | 71 | 79 | 85 | 93 |

Ratings in accordance with ISO 8528 - Standard reference conditions : 25°C air inlet temperature ; 1000 mbar ; 30% relative humidity - Power factor 0.8

PRIME POWER

The Prime Power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER

This is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overload is permissible for this use.

TECHNICAL DATA

| | | | | |
|----------------------------------|--------------|-----------|--|-----------------------------------|
| Engine model | 806 Si06 | | Cooling system | liquid (water + 50% Parafllu I I) |
| Diesel 4 stroke - Injection type | direct | | Lube oil specifications | ACEA E3-API CF4/MILL2104E/F |
| N° of cylinders | 6 in line | | Lube oil consumption | < 0.3% of fuel consumption |
| Total displacement | L | 5.9 | Fuel specifications | EN 590 |
| Bore x Stroke | mm | 104 x 115 | Speed governor | electronic (G3 class) |
| Compression ratio | 18 : 1 | | Engine rotating mass moment of inertia | kg.m ² 1.173 |
| Aspiration | turbocharged | | Flywheel housing / Flywheel | SAE3 / 11" ½ |

TECHNICAL DATA

| | RPM | 1500 | 1800 | |
|-----------------------|-----------|------|------|------|
| BMEP | kPa | 961 | 951 | |
| Fuel consumption at : | 100% load | l/h | 18.3 | 22.0 |
| | 75% load | l/h | 14.1 | 16.8 |
| | 50% load | l/h | 9.6 | 11.4 |

AIR INDUCTION SYSTEM

| | | | |
|--|-----------------------|-----|------|
| Intake air flow. | m ³ /h | 310 | 420 |
| Maximum suggested intake restriction : | | | |
| | with clean air filter | kPa | 2.45 |
| | with dirty air filter | kPa | 4.9 |

INJECTION

| | | | |
|----------------------------------|---|-------------|--|
| Injection system | | mechanical | |
| Max speed drop steady conditions | | isochronous | |
| Max fuel feed pump suction head | m | 0.8 | |

EXHAUST SYSTEM

| | | | |
|--|------|-----|-----|
| Exhaust gas flow | kg/h | 380 | 510 |
| Max exhaust temperature at full load (at 25°C - after turbine) | °C | 430 | 400 |
| Max allowable exhaust backpressure | kPa | 4.9 | |

COOLING SYSTEM

| | | | | |
|---|-------------------|--------|--------|--|
| Coolant capacity : | engine only | liters | ~ 11.5 | |
| | engine + radiator | liters | ~ 21.5 | |
| Cooling water flow rate | l/min | 85 | 105 | |
| Max allowable pressure drop on external water circuit | Pa | 5.9 | 9.8 | |
| Max head of cooling radiator | m | 3 | | |
| Pusher fan air flow | m ³ /s | 1.2 | 1.8 | |
| Pusher fan head (static) | Pa | 392 | | |
| Pusher fan absorbed power | kW | 1 | 1.5 | |
| Max engine outlet water temperature (Alarm) | °C | 100 | | |
| ATB (without canopy) - nominal rating | °C | 50 | | |

LUBRICATION SYSTEM

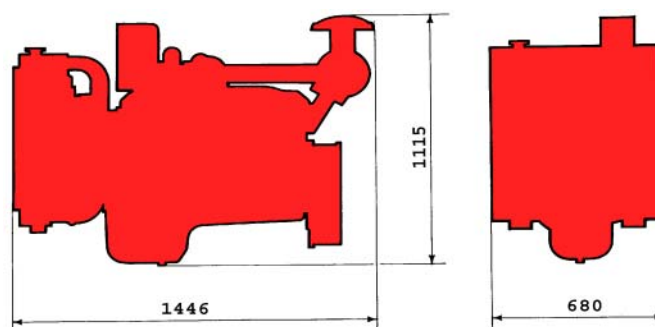
| | | | |
|--|---------------|-------------|-----------|
| Lube oil total system incl. sump, filters etc. | kg (l) | ~ 13 (14.3) | |
| Oil capacity of standard sump : | | | |
| | at min. level | kg (l) | ~ 9 (10) |
| | at max level | kg (l) | ~ 11 (12) |
| Maximum oil temperature | °C | 120 | |
| Oil pressure (min/max) | kPa | 196 | |

| | RPM | 1500 | 1800 |
|---|----------|------|------|
| HEAT REJECTION (at full load conditions) | | | |
| Engine to coolant (water + oil) | kcal/kWh | 580 | 575 |
| Engine to exhaust | kcal/kWh | 580 | 590 |
| Radiated to ambient | kcal/kWh | 170 | 130 |

ELECTRIC STARTING SYSTEM

| | | | |
|---------------------------|----------------------|----|-----|
| Cranking motor rating | kW | 3 | |
| Auxiliary voltage | Vcc | 12 | |
| Battery-charge alternator | A | 45 | |
| Starting batteries : | | | |
| | Recommended capacity | Ah | 100 |
| | Discharge current | A | 650 |

DIMENSIONS AND WEIGHTS



Engine dry weight, standard configuration

kg 580

Publication P4A048004E - 01.04
Specifications subject to change without notice
Illustrations may include optional equipment.

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