

Specifications

| | | | |
|--|-----------------------|-----------------|------------------------------|
| Thermodynamic cycle | | | Diesel 4 stroke |
| Air intake | | | TAA |
| Arrangement | | | 4L |
| Bore x Stroke | mm | 104 x 132 | |
| Total displacement | l | 4.5 | |
| Valves per cylinder | | | 2 |
| Injection system | | | Mechanical |
| Speed governor | | | mechanical |
| Cooling system | | | liquid (water - paraflu 50%) |
| Flywheel housing/flywheel | type | SAE 3 / 11" 1/2 | |
| Direction of rotation (seen from flywheel side) | | | CCW |
| Oil specifications | | | ACEA E3-E5 |
| Oil consumption | | | <0.1% of fuel consumption |
| Fuel specifications | | | EN 590 |
| Oil and filter maintenance interval for replacement | hours | 600 | |
| Specific fuel consumption at: | rpm | 1500 | 1800 |
| | 100% load l/h (g/kWh) | 19.3 (204.8) | 23.3 (220.0) |
| | 80% load l/h (g/kWh) | 14.4 (204.0) | 17.5 (220.0) |
| | 50% load l/h (g/kWh) | 9.8 (207.4) | 12.1 (229.0) |
| Coolant capacity: engine only | l | ~8.5 | |
| | engine+radiator | l | ~18.5 |
| ATB (without canopy) | °C | 53 | 55 |
| No remote cooling radiator allowed | | | |
| Lube oil total system capacity including pipes, filters etc. | l | ~12.8 | |
| Electric system | | | 12 Vcc |
| Starting batteries: recommended capacity | Ah | 1 x 100 | |
| Discharge current (EN 50342) | A | 650 | |
| Cold starting: without air preheating | °C | -10 | |
| | with air preheating | °C | -25 |

Performances

| Ratings ¹ | kWm | 1500 rpm | | 1800 rpm | |
|---------------------------|-----|----------|----------|----------|----------|
| | | PRIME | STAND-BY | PRIME | STAND-BY |
| Rated Output ² | | 77 | 85 | 87 | 95 |

1) Ratings in accordance with ISO 8528. For duty at temperature over 40°C and/or altitude over 1000 meters must be considered a power derating factor. Contact the FPT sales organization.

2) Net power at flywheel available after 50 hours running with a ±3% tolerance.

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 24h 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: The stand-by power 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 overloads is permissible for this use.

CONTINUOUS POWER: Contact the FPT sales organization.

N45 TM1A

85 kW @ 1500 rpm
95 kW @ 1800 rpm

Stage II

Standard configuration

FPT engine N45 TM1A equipped with:

- Mounted radiator incorporating air-to-air charge cooler
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Front engine mounting brackets
- Flywheel housing SAE3 and flywheel 11"1/2
- Re-directable exhaust gas elbow
- Recircled oil breather system
- Oil dipstick
- HWT and LOP sensors
- 12 Vdc electrical system
- User's handbook

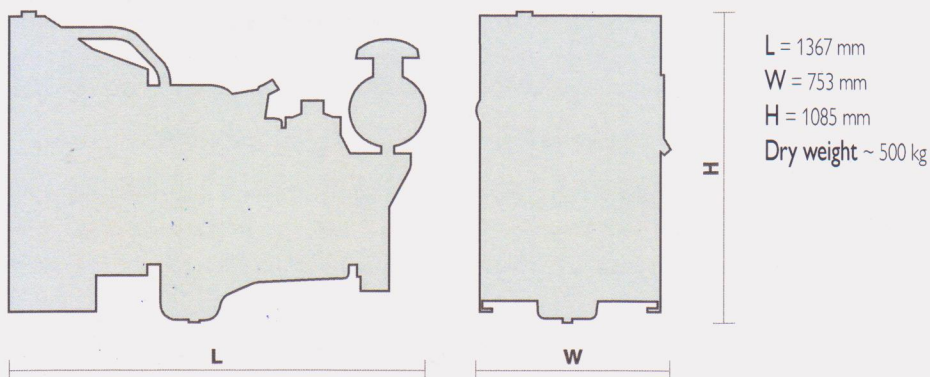
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

Optional equipment:

On request the engine can be supplied with:

- Oil drain pump
- Oil drain valve
- 120/230 Volt water jacket heater
- WT and OP sensors for gauges
- Low water level sensor
- Turbo and exhaust gas guards
- Exhaust gas flexible joint
- 24 Vdc electrical system

Overall dimensions:



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Specifications subject to change without notice.
Illustrations may include optional equipment.