

N45 TM2A

96 kW@1500 rpm
107 kW@1800 rpm
EU 2002/88/EC

Specifications

Thermodynamic cycle	Diesel 4 stroke		
Air intake	TAA		
Arrangement	4, in line		
Bore x Stroke	mm	104 x 132	
Total displacement	l	4.5	
Valves per cylinder	2		
Injection system	direct		
Speed governor	mechanical		
Cooling system	liquid (water + 50% Paraflu11)		
Flywheel housing/flywheel	type	SAE3 / 11" 1/2	
Flywheel rotation	CCW		
Lube oil specifications	ACEA E3-E5		
Lube oil consumption	<0.1% of fuel consumption		
Fuel specifications	EN 590		
Oil and filters intervals for replacement	hours	600	
Fuel consumption at:	rpm	1500	1800
	100% load l/h (g/kWh)	22.0 (207.7)	26.3 (221.0)
	80% load l/h (g/kWh)	16.2 (203.5)	19.3 (220.0)
	50% load l/h (g/kWh)	11.0 (206.5)	13.5 (226.0)
Coolant capacity: engine only	l	~8.5	
	engine+radiator	l	~18.5
ATB (without canopy)	°C	50	
No remote cooling radiator allowed			
Lube oil total system capacity including pipes, filters etc.	l	~12.8	
Electrical system	12Vcc		
Starting batteries: recommended capacity	Ah	1x100	
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		87	96	97	107

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.

Standard configuration

FPT engine N45 TM2A 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
- Redirectable 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:

