

N45 AM1A

45 kW@1500 rpm
EU 2002/88/EC

Specifications

Thermodynamic cycle		Diesel 4 stroke
Air intake		NA
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
	100% load l/h (g/kWh)	11.3 (22.3)
	80% load l/h (g/kWh)	9.2 (228.6)
	50% load l/h (g/kWh)	6.4 (235.9)
Coolant capacity: engine only	l	~8.5
	engine+radiator	l
ATB (without canopy)	°C	TBD
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

Performances

Ratings ¹		1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated Output ²	kWm	41	45	45	50

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 AM1A equipped with:

- Mounted radiator
- 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
- Recircled oil breather system
- Oil dipstick
- HWT and LOP sensors
- 12Vdc 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
- Exhaust gas guards
- 24 Vdc electrical system
- Electronic speed governor

Overall dimensions:

