N45 SM1A

59 kW @ 1500 rpm
65 kW @ 1800 rpm
Stage II

Specifications

Thermodynamic cycle		Diesel 4 stroke	
Air intake		TC	
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	SAE3 / 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)	13.7 (210.8)	15.5 (213.4)
	80% load l/h (g/kWh)	10.2 (210.2)	11.7 (214.5)
	50% load l/h (g/kWh)	7.0 (216.3)	8.2 (226.6)
Coolant capacity: engine only	l	~8.5	
engine+radiator	l	~18.5	
ATB (without canopy)	°C	58	60
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]		1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated Output[2]	kWm	53.5	59	59	65

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.

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Standard configuration

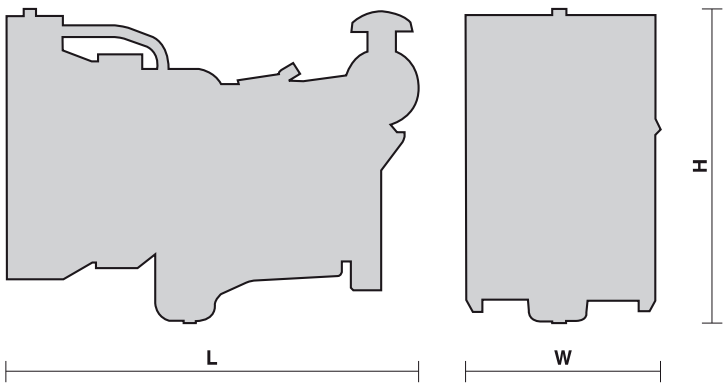
FPT engine N45 SM1A equipped with:
- Mounted radiator
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Front engine mounting brackets
- Flywheel housing SAE3 and flywheel 11"1/2
- Re-directable exhaust gas elbow
- Recirculed 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 Volt electrical system

Overall dimensions:



L = 1259 mm
W = 657 mm
H = 1016 mm
Dry weight ~ 450 kg

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