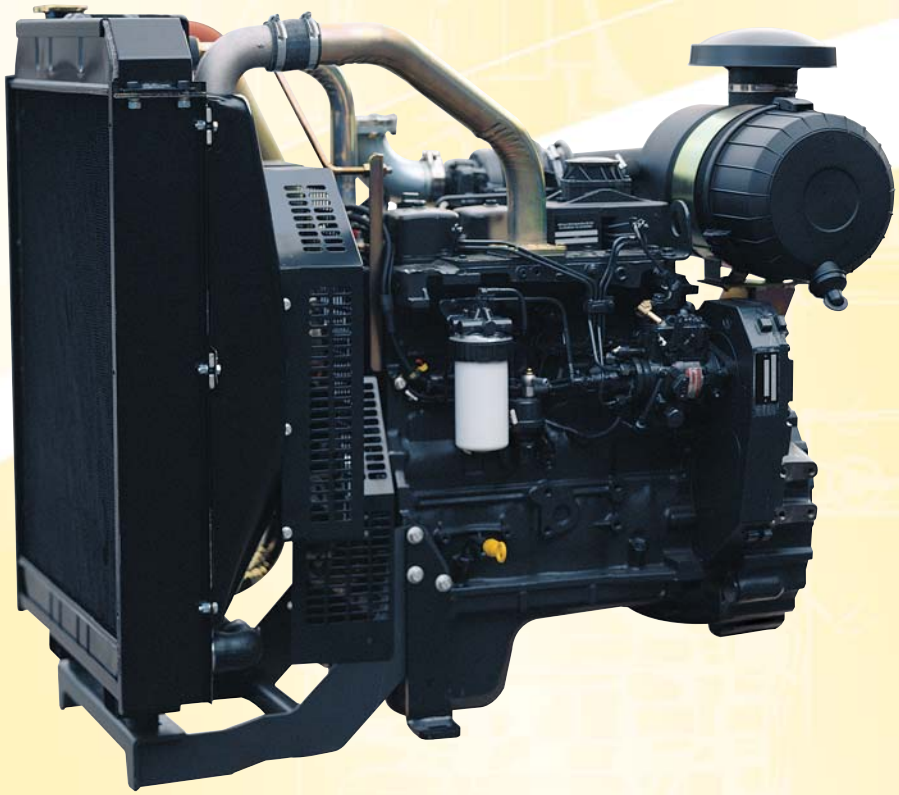
N45 TM2X

95 kW - 128 HP@1800 rpm

EPA/CARB TIER3



ENGINE FOR POWER GENERATION APPLICATIONS

FPT POWERTRAIN TECHNOLOGIES

Specifications

Thermodinamic cycle			Diesel 4 stroke
Air intake			TAA
Arrangement			4, in line
Bore x stroke		mm (in)	104x132 (4.09 x 5.20)
Total displacement		l (in^3)	4.5 (275)
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	1800
		100% load l/h (g/kWh)	24.6 (232.6)
		80% load l/h (g/kWh)	20 (232.4)
		50% load l/h (g/kWh)	13.3 (230.6)
Coolant capacity:	engine only	l (US gal)	~8.5 (1.9)
	engine+radiator	l (US gal)	~18.5 (4.9)
ATB (without canopy)		°C (°F)	55 (131)
No remote cooling radiator allowed			
Lube oil total system capacity including pipes, filters etc.		l (US gal)	~12.8 (3.4)
Electrical system			12Vcc
Starting batteries: recommended capacity		Ah	1x100
Discharge current (EN 50342)		A	650
Cold starting:	without air preheating	°C (°F)	-10 (14)
	with air preheating	°C (°F)	-25 (-13)

Performance

Ratings[1]		1800 rpm	
		PRIME	STAND-BY
Rated Output[2]	kWm (HP)	86 (116)	95 (127)

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 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 TM2X FOR POWER GENERATION APPLICATIONS

Standard Configuration:

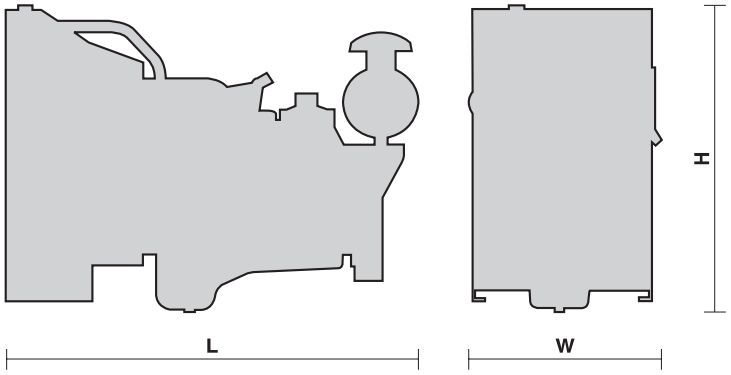
FPT engine N45 TM2X equipped with:
- Mounted radiator incorporating air-to-air charge cooler
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Front engine mounting brackets
- Flywheel housing SAE3 and flywheel 11"1/2
- Re-directable exhaust gas elbow
- Recirculed oil breather system
- Oil dipstick
- HWT and LOP sensors
- 12 Vdc
- User's handbook

THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

Optional equipment:

On request the engine can be supplied with:
- Oil drain pump
- Oil drain pump
- 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

Overall dimensions



L = 1367 mm (53.82 in)
W = 753 mm (29.65 in)
H = 1085 mm (42.72 in)
Dry weight ~ 500 kg (~ 1102 lbs)

ENGINE BENEFITS

- **PERFORMANCE:** Compact packaging; starting temperature as low as 14°F (-10 °C) without starting aids; performance achieved without external EGR; consistent performance up to 104°F (40°C) and 3281 ft (1000 m) a.s.l.; first step load acceptance in class G2 (ISO 8528-5)
- **SERVICEABILITY:** Worldwide service network
- **RELIABILITY:** By-pass valve on oil and fuel filters
- **COST EFFECTIVENESS:** New extended 600 h maintenance intervals (oil and fuel filters change); reduced oil and fuel consumption; new blow-by recirculation system
- **ENVIRONMENTALLY FRIENDLY:** Reduced noise; emission legislation compliance
- **CUSTOMER ORIENTATION:** On demand production; standard generator interface SAE; small size engines; consistency with standard and alternative fuels in compliance with regulatory requirements; complete engine power range

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LOCAL DISTRIBUTOR

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

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