

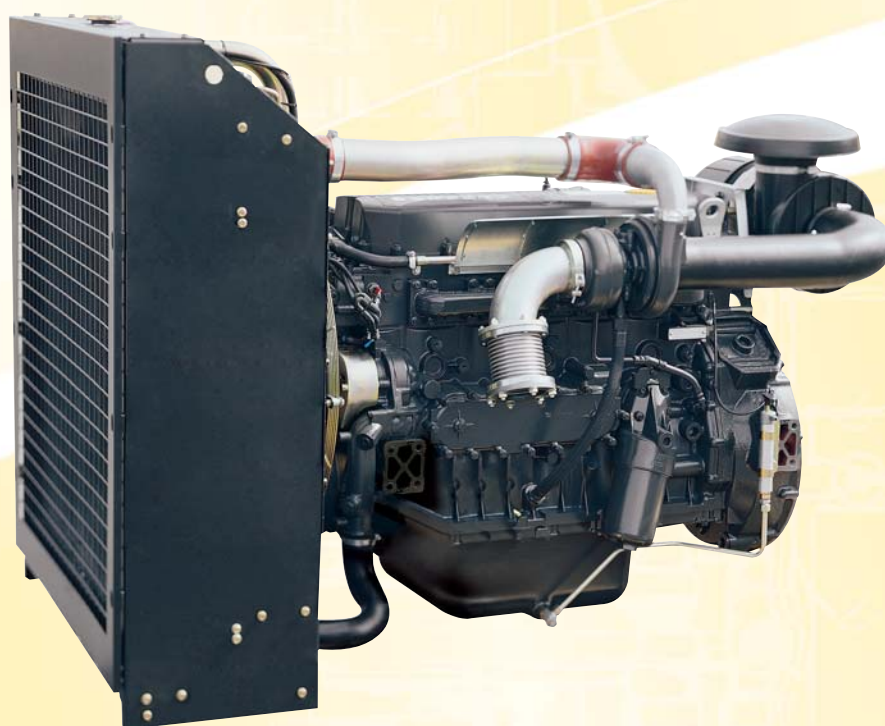
C87 TE1D

255 kW@1500 rpm

276 kW - 370 HP@1800 rpm

EU 2002/88/EC

EPA/CARB TIER 3



**ENGINE FOR
POWER GENERATION
APPLICATIONS**

C87 TE1D FOR POWER GENERATION APPLICATIONS

Specifications

Thermodynamic cycle	Diesel, 4 stroke		
Air intake	TAA		
Arrangement	6, in line		
Bore x stroke	mm (in)	117x135 (4.61 X 5.31)	
Total displacement	l (in ³)	8.7 (531)	
Valves per cylinder	4		
Injection system	direct Common Rail		
Speed governor	electronic		
Cooling system	liquid (water + 50% Paraflu11)		
Flywheel housing/flywheel	type	SAE1 / 14"	
Flywheel rotation	CCW		
Lube oil specifications	ACEA E3-E5		
Lube oil consumption	<0.2% 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)	58.5 (205.4)	64.3 (204.5)
	80% load l/h (g/kWh)	49 (209.3)	55.6 (215)
	50% load l/h (g/kWh)	35.4 (225)	38.8 (225)
Coolant capacity: engine only	l (US gal)	~15 (4.3)	
	engine+radiator	l (US gal) ~63 (16.6)	
ATB (without canopy)	°C (°F)	55 (131)	
No remote cooling radiator allowed			
Lube oil total system capacity including pipes, filters etc.	l (US gal)	~28 (7.4)	
Electrical system	24Vcc		
Starting batteries: recommended capacity	Ah	2x185	
Discharge current (EN 50342)	A	1200	
Cold starting:	without air preheating	°C (°F) -10 (14)	
	with air preheating	°C (°F) -25 (-13)	

Performance

Ratings ¹		1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated Output ²	kWm (HP)	232	255	251 (336)	276 (370)

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.

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Standard Configuration:

FPT engine C87 TE1D equipped with:

- Mounted radiator incorporating air-to-air charge cooler
- Front radiator guard
- Oil drain pump
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Electronic engine control unit
- Interface box
- WT and OP sensors for gauges
- HWT and LOP sensors
- Front engine mountings brackets
- Flywheel housing SAE1 and flywheel 14"
- Re-directable exhaust gas elbow
- Recircled oil breather system
- Oil dipstick
- 24Vdc electrical system
- User's handbook

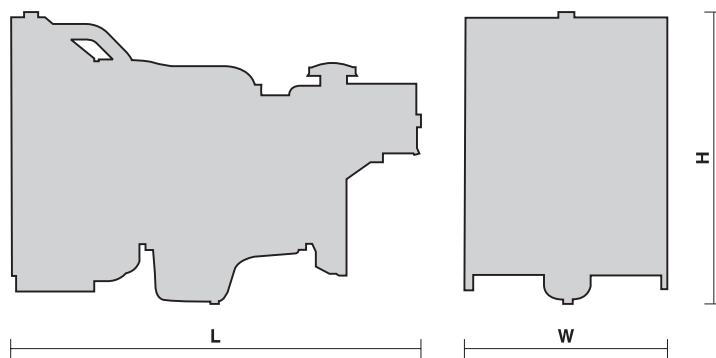
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

Optional equipment:

On request the engine can be supplied with:

- 230 Volt water jacket heater
- turbo and exhaust gas guards
- Exhaust gas flexible joint
- Low water level sensor

Overall dimensions



L = 2042 mm (80.39 in)

W = 1055 mm (41.54 in)

H = 1394 mm (54.88 in)

Dry weight ~ 1220 kg (~ 2690 lbs)

ENGINE BENEFITS

- **PERFORMANCE:** Compact packaging; starting temperature as low as 14°F (-10 °C) without starting aids; performance achieved without external EGR; new blow-by system; very compact 2nd generation common rail system; engine changeable to 1500 or 1800 rpm; consistent performance up to 104°F (40°C) and 3281 ft (1000 m) a.s.l.; first step load acceptance in class G3(ISO 8528-5)
- **SERVICEABILITY:** Worldwide service network
- **RELIABILITY:** Limited lifetime warranty on Poly-V belts
- **COST EFFECTIVENESS:** New extended 600 h maintenance intervals (oil and filters change); reduced oil and fuel consumption
- **ENVIRONMENTALLY FRIENDLY:** Reduced noise; emission legislation compliance
- **CUSTOMER ORIENTATION:** Standard generators interface SAE1; complete engine power range

FIAT POWERTRAIN TECHNOLOGIES

Via Puglia, 15 - 10156 Torino

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LOCAL DISTRIBUTOR

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