

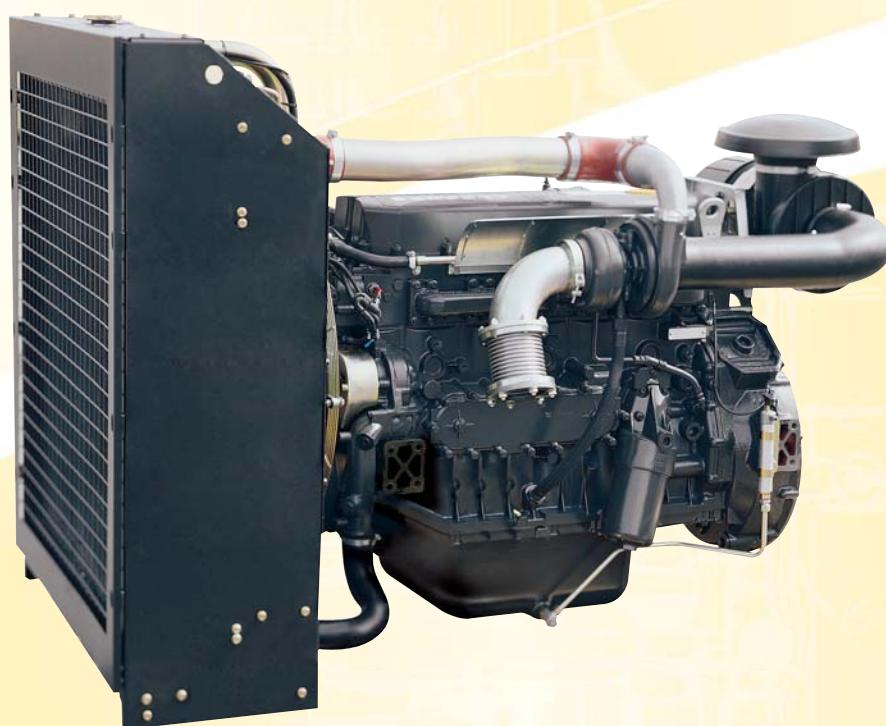
# C87 TE1D

255 kW@1500 rpm

276 kW@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	117x135	
Total displacement	l	8.7	
Valves per cylinder		4	
Injection system		electronic 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)	n.a.	n.a.
	80% load l/h (g/kWh)	n.a.	n.a.
	50% load l/h (g/kWh)	n.a.	n.a.
Coolant capacity: engine only	l	~15	
	engine+radiator	l	~63
ATB (without canopy)	°C	n.a.	
<b>No remote cooling radiator allowed</b>			
Lube oil total system capacity including pipes, filters etc.	l	~28	
Electrical system		24Vcc	
Starting batteries: recommended capacity	Ah	2x185	
Discharge current (EN 50342)	A	1200	
Cold starting:	without air preheating	°C -15	
	with air preheating	°C -25	

### Performance

Ratings <sup>1</sup>		1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated Output <sup>2</sup>	kWm	232	255	251	276

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.

## C87 TE1D FOR POWER GENERATION APPLICATIONS

### 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

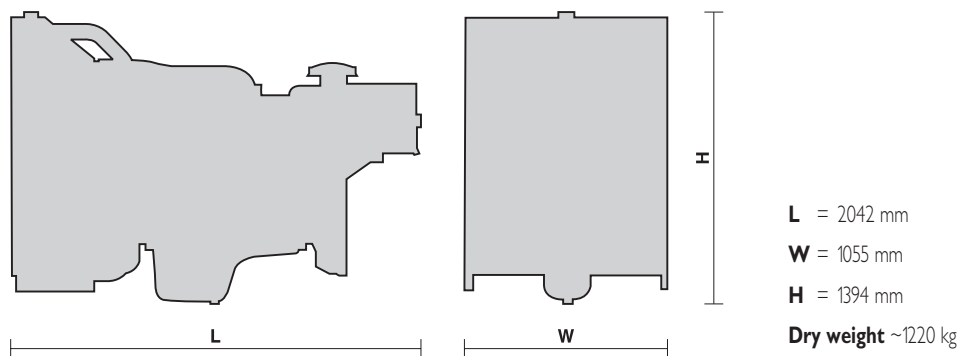
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

### 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



## ENGINE BENEFITS

- **PERFORMANCE:** Lean lay-out; starting temperature without auxiliaries down to -15°C; performance achieved without external EGR; new blow-by system; very compact 2nd generation common rail system; engine 1500/1800 rpm swi tenable; power before derating up to 40°C and 1000 m a.s.l.; first step load acceptance in class G3(ISO 8528-5)
- **SERVICEABILITY:** Worldwide service network
- **RELIABILITY:** For life 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 generator interface SAE1; complete engine power range

### FIAT POWERTRAIN TECHNOLOGIES

Via Puglia, 15 - 10156 Torino

### FIAT POWERTRAIN TECHNOLOGIES

Viale dell'Industria, 15/17 - 20010 Pregnana Milanese (MI)

[www.ftpowertrain.com](http://www.ftpowertrain.com)

LOCAL DISTRIBUTOR

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