## C10 TE1D 290kW 317kW

290 kW @ 1500 rpm 317 kW @ 1800 rpm **Stage II / Tier 3** 

Thermodynamic Cycle         Diesel 4 stroke           Air Handling         TAA           Arrangement         6L           Bore x Stroke (mm)         125 X 140           Total Displacement (I)         10.3           Valves per cylinder (n*)*         4           Injection System         EUI           Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         <0.1% of fuel consumption	SPECIFICATIONS				
Arrangement         6L           Bore x Stroke (mm)         125 x 140           Total Displacement (l)         10.3           Valves per cylinder (n°)         4           Injection System         EUI           Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         40.1% of fuel consumption           Fuel specifications         800           Oil and oil filter maintenance interval for replacement [***] (hours)         600           Specific fuel consumption at:         1500         1800           - Stand-By l/h (g/kWh)         -2         1-4         1-4         1-5           - 100% load l/h (g/kWh)         62.8 (192)         76.4 (210.5)         1-8	Thermodynamic Cycle	Diesel 4 stroke			
Bore x Stroke (mm)         125 X 140           Total Displacement (l)         10.3           Valves per cylinder (n°)         4           Injection System         EUI           Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         4.1% of fuel consumption           Fuel specifications         EN 590           Oil and oil filter maintenance interval for replacement [***] (hours)         60           Specific fuel consumption at:         1500         1800           1 - Stand-By l/h (g/kWh)         -2         164 (210.5)           2 - Stand-By l/h (g/kWh)         62.8 (192.)         76.4 (210.5)           3 - 80% load l/h (g/kWh)         63.8 (219.8)         3.7 (198.)           4 BY (Wh)         63.8 (219.8)         43.7 (218.6)           4 BY (Wh)         76.4 (210.5)         43.7 (218.6)           4 Coolant capacity: engine + radiator (l)         63.8 (219.8)         -63.           Coolant capacity: engine only (l)         -15         -10           Lube oil total system capacity including pipes, filters etc. (l)         -30         -20	Air Handling	TAA			
Total Displacement (I)         10.3           Valves per cylinder (n°)         4           Injection System         EUI           Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         -0.1% of fuel consumption           Fuel specifications         EN 590           Oil and oil filter maintenance interval for replacement [***] (hours)         600           Specific fuel consumption at:	Arrangement	6L			
Valves per cylinder (n°)         4           Injection System         EUI           Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         <0.1% of fuel consumption	Bore x Stroke (mm)	125 X 140			
Injection System         EUI           Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         <0.1% of fuel consumption	Total Displacement (I)	10.3			
Speed governor         Electronic           Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         <0.1% of fuel consumption	Valves per cylinder (n°)	4	4		
Cooling System         liquid (water - paraflu 50%)           Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         <0.1% of fuel consumption           Fuel specifications         EN 590           Oil and oil filter maintenance interval for replacement [***] (hours)         600           Specific fuel consumption at:         1500         1800           Stand-By I/h (g/kWh)         -         -           1 00% load I/h (g/kWh)         62.8 (192)         76.4 (210.5)           2 80% load I/h (g/kWh)         53.7 (198)         63.8 (219.8)           3 50% load I/h (g/kWh)         36.4 (202.5)         43.7 (218.6)           ATB (without canopy) (°C)         58         -           Coolant capacity: engine + radiator (I)         ~63           Coolant capacity: engine only (I)         ~15           Lube oil total system capacity including pipes, filters etc. (I)         ~30           Electric system (isolated return)         24           Starting batteries: recommended capacity (Ah)         2x 185           Discharge Current (EN50342) A         1200           Cold starting: without preheating (°C)         -10	Injection System	EUI	EUI		
Direction of Rotation (viewed facing flywheel)         CCW           Oil specifications         ACEA E3-E5           Oil consumption         <0.1% of fuel consumption           Fuel specifications         EN 590           Oil and oil filter maintenance interval for replacement [***] (hours)         600           Specific fuel consumption at:         1500         1800           S stand-By I/h (g/kWh)         -         -         -         -           -         100% load I/h (g/kWh)         62.8 (192)         76.4 (210.5)         -           -         80% load I/h (g/kWh)         53.7 (198)         63.8 (219.8)         -           -         50% load I/h (g/kWh)         36.4 (202.5)         43.7 (218.6)         -           ATB (without canopy) (°C)         58         -         -         -           Coolant capacity: engine + radiator (I)         ~63         -	Speed governor	Electronic	Electronic		
Oil specifications       ACEA E3-E5         Oil consumption       <0.1% of fuel consumption         Fuel specifications       EN 590         Oil and oil filter maintenance interval for replacement [***] (hours)       600         Specific fuel consumption at:	Cooling System	liquid (water - paraflu 50%)	liquid (water - paraflu 50%)		
Oil consumption       <0.1% of fuel consumption         Fuel specifications       EN 590         Oil and oil filter maintenance interval for replacement [***] (hours)       600         Specific fuel consumption at:       1500       1800         S Stand-By I/h (g/kWh)       -<	Direction of Rotation (viewed facing flywheel)	CCW	CCW		
Fuel specifications       EN 590         Oil and oil filter maintenance interval for replacement [***] (hours)       600         Specific fuel consumption at:       1500       1800         - Stand-By I/h (g/kWh)	Oil specifications	ACEA E3-E5	ACEA E3-E5		
Oil and oil filter maintenance interval for replacement [***] (hours) 600  Specific fuel consumption at:  - Stand-By I/h (g/kWh) - 100% load I/h (g/kWh) - 80% load I/h (g/kWh) - 53.7 (198) 63.8 (219.8) - 50% load I/h (g/kWh) 36.4 (202.5) 43.7 (218.6)  ATB (without canopy) (°C)  Coolant capacity: engine + radiator (I)  Coolant capacity: engine only (I)  Lube oil total system capacity including pipes, filters etc. (I)  Starting batteries: recommended capacity (Ah)  Discharge Current (EN50342) A  Cold starting: without preheating (°C)  600  600  1800  1800  1800  - 62.8 (192) 76.4 (210.5) 76.4 (210.	Oil consumption	<0.1% of fuel consumption	<0.1% of fuel consumption		
Specific fuel consumption at:       1500       1800         - Stand-By I/h (g/kWh)	Fuel specifications	EN 590	EN 590		
- Stand-By I/n (g/kWh) 100% load I/h (g/kWh) 62.8 (192) 76.4 (210.5) - 80% load I/h (g/kWh) 53.7 (198) 63.8 (219.8) - 50% load I/h (g/kWh) 36.4 (202.5) 43.7 (218.6) ATB (without canopy) (°C) 58 - Coolant capacity: engine + radiator (I) - 63  Coolant capacity: engine only (I) - 15  Lube oil total system capacity including pipes, filters etc. (I) - 30  Electric system (isolated return) 24  Starting batteries: recommended capacity (Ah) 2 x 185  Discharge Current (EN50342) A 1200  Cold starting: without preheating (°C) -10	Oil and oil filter maintenance interval for replacement [***] (hours)	600	600		
- 100% load l/h (g/kWh) 62.8 (192) 76.4 (210.5) - 80% load l/h (g/kWh) 53.7 (198) 63.8 (219.8) - 50% load l/h (g/kWh) 36.4 (202.5) 43.7 (218.6)  ATB (without canopy) (°C) 58 - Coolant capacity: engine + radiator (l) ~63  Coolant capacity: engine only (l) ~15  Lube oil total system capacity including pipes, filters etc. (l) ~30  Electric system (isolated return) 24  Starting batteries: recommended capacity (Ah) 2 x 185  Discharge Current (EN50342) A 1200  Cold starting: without preheating (°C) -10		1500	1800		
- 80% load l/h (g/kWh) 53.7 (198) 63.8 (219.8) - 50% load l/h (g/kWh) 36.4 (202.5) 43.7 (218.6)  ATB (without canopy) (°C) 58 - Coolant capacity: engine + radiator (l) ~63  Coolant capacity: engine only (l) ~15  Lube oil total system capacity including pipes, filters etc. (l) ~30  Electric system (isolated return) 24  Starting batteries: recommended capacity (Ah) 2 x 185  Discharge Current (EN50342) A 1200  Cold starting: without preheating (°C) -10		- 62.8 (402.)	- 76.4 (240.5)		
- 50% load l/h (g/kWh)  ATB (without canopy) (°C)  58  - Coolant capacity: engine + radiator (l)  Coolant capacity: engine only (l)  - 63  Cube oil total system capacity including pipes, filters etc. (l)  Electric system (isolated return)  24  Starting batteries: recommended capacity (Ah)  Discharge Current (EN50342) A  Cold starting: without preheating (°C)  43.7 (218.6)  43.7		` ,	` ,		
ATB (without canopy) (°C)  Coolant capacity: engine + radiator (I)  Coolant capacity: engine only (I)  Lube oil total system capacity including pipes, filters etc. (I)  Electric system (isolated return)  Starting batteries: recommended capacity (Ah)  Discharge Current (EN50342) A  Cold starting: without preheating (°C)  58  - 63  - 15  - 20  - 30  - 30  Electric system (isolated return)  2 x 185  Discharge Current (EN50342) A  1200  - 10					
Coolant capacity: engine only (I) ~ 15 Lube oil total system capacity including pipes, filters etc. (I) ~ 30 Electric system (isolated return) 24 Starting batteries: recommended capacity (Ah) 2 x 185 Discharge Current (EN50342) A 1200 Cold starting: without preheating (°C) -10					
Lube oil total system capacity including pipes, filters etc. (I)~ 30Electric system (isolated return)24Starting batteries: recommended capacity (Ah)2 x 185Discharge Current (EN50342) A1200Cold starting: without preheating (°C)-10	Coolant capacity: engine + radiator (I)	~ 63			
Electric system (isolated return)  Starting batteries: recommended capacity (Ah)  Discharge Current (EN50342) A  Cold starting: without preheating (°C)  24  2 x 185  1200  -10	Coolant capacity: engine only (I)	~ 15			
Starting batteries: recommended capacity (Ah)  Discharge Current (EN50342) A  Cold starting: without preheating (°C)  2 x 185  1200  -10	Lube oil total system capacity including pipes, filters etc. (I)	~ 30			
Discharge Current (EN50342) A 1200 Cold starting: without preheating (°C) -10	Electric system (isolated return)	24	24		
Cold starting: without preheating (°C) -10	Starting batteries: recommended capacity (Ah)	2 x 185			
	Discharge Current (EN50342) A	1200			
Cold starting: with preheating (°C) -25	Cold starting: without preheating (°C)	-10			
	Cold starting: with preheating (°C)	-25			

WEIGHT AND DIMENSIONS	
Dimensions (LxWxH)	2168 X 1055 X 1566
Dry Weight	Kα 1110

PERFORMANCE				
Ratings 1	15	1500 rpm 1800 rpm		0 rpm
	PRIME	STAND-BY	PRIME	STAND-BY
Rated Power kWm <sup>2</sup>	263	290	290	317

<sup>1)</sup> 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.

CONTINUOS POWER: Contact the FPT sales organization.

Legend

Arrangement Air Handling Injection System Emission Standard

L (in line)

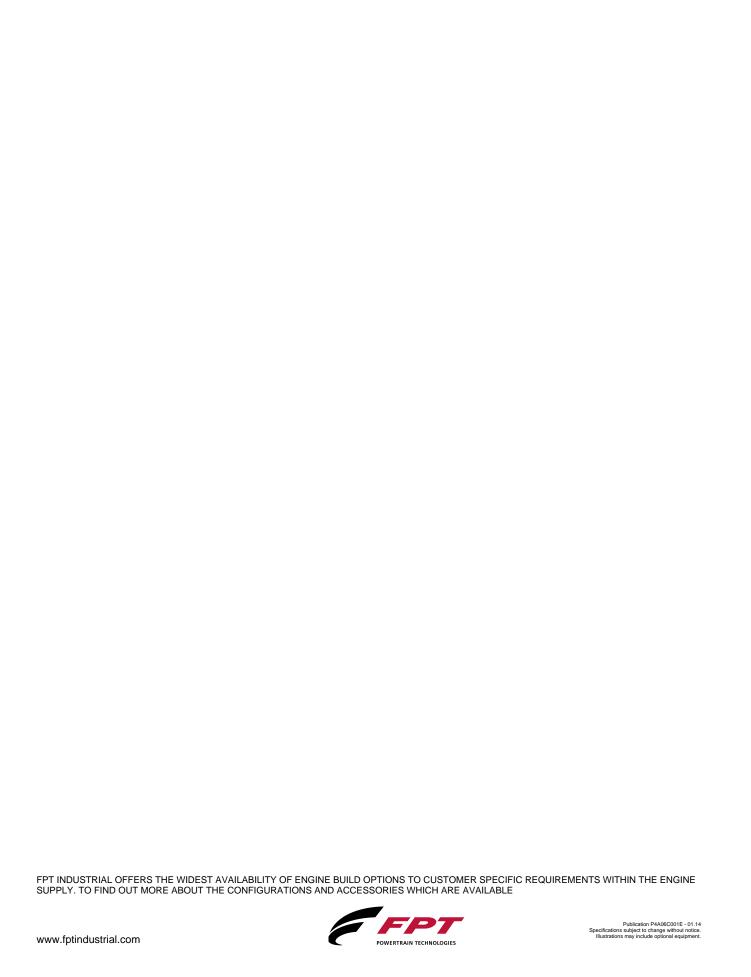
TAA (Turbocharged with aftercooler)
V (90" "V" configuration)

TC (Turbocharged)
TC (Turbocharged)
NA (Naturally Aspirated)

MI (Mechanical)
ECR (Electronic Common Rail)
EUI (Electronic Unit Injector)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM





## **STANDARD CONFIGURATION**

- FPT engine C10 TE1D equipped with:

   Mounted radiator incorporating air-to-air charge cooler

- Mounted radiator incorporating a
   Front radiator guard
   Oil drain pump
   Mounted belt driven pusher fan
   Fan guard
   Mounted air filter
   Fuel filter

- Primary fuel filter/water separatorReplaceable oil filter
- Electronic engine control unit, pump injector units with wiring and sensor
- Interface box
- WT and OP sensors for samples
   HWT and LOP sensors

- Front engine mounting bracketsFlywheel housing SAE1 and flywheel 14"
- Re-directable exhaust gas elbow
- Recirculed 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
- Low water level sensorExhaust gas flexible joint

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