

V20 TE1

610 kW@1500 rpm
680 kW@1800 rpm
EPA/CARB TIER 2
1/2 TA LUFT

Specifications

Thermodynamic cycle	Diesel 4 stroke		
Air intake	TAA		
Arrangement	8, V configuration		
Bore x Stroke	mm	145 x 152	
Total displacement	l	20	
Valves per cylinder	4		
Injection system	electronic Common Rail		
Speed governor	electronic		
Cooling system	liquid (water + 50% Paraflu11)		
Flywheel housing/flywheel	type	SAE0 / 18"	
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	1000	
Fuel consumption at:	rpm	1500	1800
	100% load l/h (g/kWh)	132.2 (192.2)	160.3 (216.2)
	80% load l/h (g/kWh)	106 (199.3)	128 (215.9)
	50% load l/h (g/kWh)	71.5 (214.5)	84.9 (228.5)
Coolant capacity: engine only	l	~35	
engine+radiator	l	~85	
ATB (without canopy)	°C	50	
No remote cooling radiator allowed			
Lube oil total system capacity including pipes, filters etc.	l	~85	
Electrical system	24Vcc		
Starting batteries: recommended capacity	Ah	2x220	
Discharge current (EN 50342)	A	1200	
Cold starting: without air preheating	°C	-10	
	with air preheating	°C	-25

Performances

Ratings ¹	kWm	1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated Output ²		555	610	620	680

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.

Standard configuration

FPT engine V20 TE1 equipped with:

- Loose/radiator incorporated 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 with wiring loom and sensors
- Box relays
- WT and OP sensors for gauges
- HWT and OP sensors
- Low water level sensor
- Front engine mounting brackets
- Flywheel housing SAE0 and flywheel 18
- Re-directable exhaust gas elbow
- 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

Overall dimensions:

