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	8, V configuration	
Bore × Stroke	mm	145 x 152		
Total displacement		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		~35		
engine+radiator		~85		
ATB (without canopy)	°C	50		
No remote cooling radiator allowed				
Lube oil total system capacity including pipes, filters etc.		~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 <sup>1</sup>		1500 rpm		1800 rpm	
		PRIME	stand-by	PRIME	stand-by
Rated Output <sup>2</sup>	kWm	555	610	620	680

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.
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 fitter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Electronic engine control unit with wiring loom and sensors
- Box relais
- 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

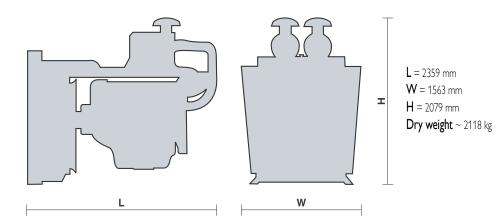
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

## **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:**



Publication P4A06V001E - 12.09 Specifications subject to change without notice. Illustrations may include optional equipment.