

**SPECIFICATIONS**

Thermodynamic Cycle	Diesel 4 stroke	
Air Handling	TAA	
Arrangement	4L	
Bore x Stroke (mm)	104 X 132	
Total Displacement (l)	4.5	
Valves per cylinder (n°)	2	
Injection System	M	
Speed governor	mechanical	
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:	<b>1500</b>	<b>1800</b>
- Stand-By l/h (g/kWh)	-	-
- 100% load l/h (g/kWh)	22 ( 207.7 )	26.3 ( 221 )
- 80% load l/h (g/kWh)	16.2 ( 203.5 )	19.6 ( 220 )
- 50% load l/h (g/kWh)	11 ( 206.5 )	13.5 ( 226 )
ATB (without canopy) (°C)	55	
Coolant capacity: engine + radiator (l)	~ 18.5	
Coolant capacity: engine only (l)	~ 8.5	
Lube oil total system capacity including pipes, filters etc. (l)	~ 12.8	
Electric system (isolated return)	12	
Starting batteries: recommended capacity (Ah)	1 x 100	
Discharge Current (EN50342) A	650	
Cold starting: without preheating (°C)	-10	
Cold starting: with preheating (°C)	-25	

**WEIGHT AND DIMENSIONS**

Dimensions (LxWxH)	1367 X 753 X 1085
Dry Weight	Kg 500

**PERFORMANCE**

Ratings <sup>1</sup>	1500 rpm		1800 rpm	
	PRIME	STAND-BY	PRIME	STAND-BY
Rated Power kWm <sup>2</sup>	87	96	97	107

<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.

<sup>2</sup>) 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.

**Legend**

Arrangement	Air Handling	Injection System	Emission Standard
L (in line) V (90° "V" configuration)	TAA (Turbocharged with aftercooler) TC (Turbocharged) NA (Naturally Aspirated)	M (Mechanical) ECR (Electronic Common Rail) EUI (Electronic Unit Injector)	I-EGR (Internal EGR)

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](http://WWW.FPTINDUSTRIAL.COM)

FPT INDUSTRIAL OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE

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



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

## STANDARD CONFIGURATION

FPT engine N45 TM2A equipped with:

- Mounted radiator incorporating air-to-air charge cooler
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Front engine mounting brackets
- Flywheel housing SAE3 and flywheel 11"1/2
- Redirectable exhaust gas elbow
- Recircled oil breather system
- Oil dipstick
- HWT and LOP sensors
- 12 Vdc electrical system
- User's handbook

THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

## OPTIONAL EQUIPMENT

On request the engine can be supplied with:

- Oil drain pump
- Oil drain valve
- 120/230 Volt water jacket heater
- WT and OP sensors for gauges
- Low water level sensor
- Turbo and exhaust gas guards
- Exhaust gas flexible joint
- 24 Vdc electrical system

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