

# On Road

## Light Commercial Vehicles

### F1A

# S23 ENT

107 kW (146 HP) @ 3600 rpm

Euro 5 / Euro 5+

## SPECIFICATIONS

Thermodynamic Cycle	Diesel 4 stroke	
Air Handling	TCA	
Bore x Stroke	millimeters	88 x 94
Total Displacement	liters	2.3
Valves per cylinder	number	4
Cooling System	liquid	
Direction of Rotation	viewed facing flywheel	CCW
Compression ratio	16.2:1	
Injection System	ECR	
Arrangement	4L	

## PERFORMANCES

Peak power	kW (HP) @ rpm	107 ( 146 ) @ 3600
Peak torque	Nm (kgm) @ rpm	350 (36) @ 2750
High idle speed	rpm	4600
Low idle speed	rpm	±800
Minimum starting temperature without auxiliaries	°C	-25°
Oil and oil filter maintenance interval for replacement	kilometer	-

## STANDARD CONFIGURATION

Flywheel housing	type	n.a.
Flywheel size	inch	10" 1/2 dual mass
Intake manifold location	engine front direction / left side	
Exhaust manifold location	middle high / right side / back	
Turbocharger	Variable Geometry Turbocharger	
Turbocharger location	center / right side	
Fan transmission ratio	n.a.	
Distance between fan - crankshaft centers	millimeters	X=-19 Y=165
Fuel filter	number	included in pressure regulator
Oil filter	number	single cartridge - left side
Oil sump	suspended sheet steel	
Oil vapours blow-by circuit	close case ventilation	
Oil heat exchanger	integrated into the block	
Oil filler	on valve cover	
Starter	12 V - 2.5kW	
Alternator	12 V (110 A - 140 A)	
Engine stop device	by electronic control unit	
Wiring harness	interface wiring loom with accessories	
Painting color	n.a.	
Air compressor	-	
Hydraulic steering pump	liters-minute	-
Maximum torque available from crankshaft pulley	newton-meter	-

## WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	689 x 576 x 829
Dry Weight	Kg	222

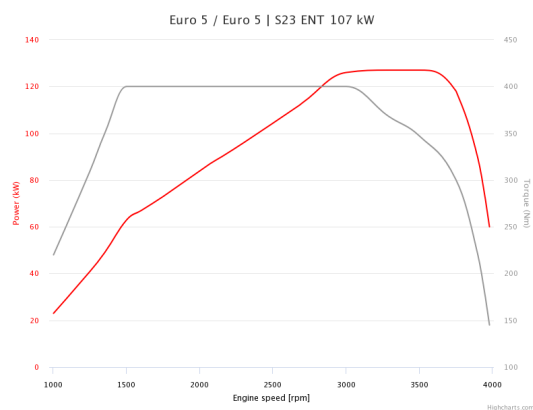
DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



ON ROAD

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## POWER & TORQUE



## NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)	-	
PTO - transmission ratio	n.a.	
PTO - maximum available torque	---	
Battery - minimum capacity recommended	Ah	105 Ah (12V)
Battery - minimum cold cranking capacity recommended	Ah	12 V - 800 Ah

## LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Emission standard	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EEV (Enhanced Environmentally friendly Vehicle)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)		SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)	TST (Twin Stage Turbocharge)	EUI (Electronic Unit Injector)		
			MPI (Multi Point Injection)		

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