



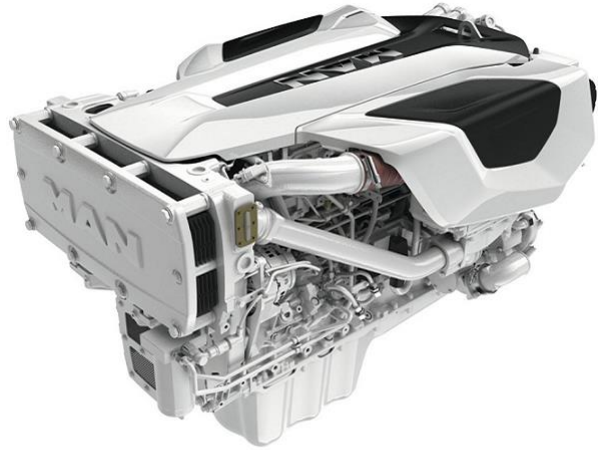
# Technical data sheet

12.11.2020  
(Version 1)

Marine diesel engine  
D2676LE456 (i6-850)

## Performance data <sup>1</sup>

Rated power	625	kW
Rated power	850	PS
Speed	2300	rpm
Bore/Stroke	126/166	mm
Displacement	12,42	liter
Rated torque	2595	Nm
Maximum torque	2740	Nm
at speed	1400-2100	rpm
Compression ratio [ε]	16,5	:1
Mean effective pressure	26,26	bar
Mean piston speed	12,73	m/s



## Consumption data <sup>2</sup>

Specific fuel consumption <sup>1</sup>	219	g/kWh
Absolute fuel consumption <sup>1</sup>	163	l/h
Lowest fuel consumption <sup>3</sup>	214	g/kWh

The engine illustrated may not entirely be identical to production standard engine

## Engine description

Application	Main propulsion diesel for ships with fixed pitch propeller
Operation profile	Up to 500 hours per year at a maximum of 5 % of time at full load
Construction	Four-stroke marine diesel engine, direct injection, SAE 1 flywheel housing
Cylinders	6 cylinders in line, wet replaceable cylinder liners
Air system	Single-stage turbocharger with charge air intercooler and wastegate
Cooling system	Seawater cooled charge air cooler and plate heat exchanger by rubber impeller pump
Oil system	Force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of the engine
Fuel system	Common Rail injection system with EDC17 control, fuel according to DIN EN 590
Auxiliary PTO	PTO for hydraulic pump 16 cm <sup>2</sup>
Alternator	Three-phase generator with rectifier and transistorized governor, 28V, 120A
Starting system	Solenoid-operated electric starter, 24V, 5.5kW
Service	Oil change interval 400 operating hours
Classification	-----

**Exhaust status** IMO Tier II, RCD 2013/53/EC, EPA Tier 3 recreational, China 2 recreational

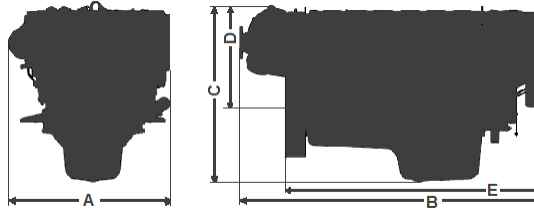
<sup>1</sup> Values at rated power

<sup>2</sup> Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

<sup>3</sup> Values on propeller curve

## D2676LE456 (i6-850)

A - overall width.....	986 mm
B - overall length.....	1795 mm
C - overall height.....	1096 mm
D - above crank shaft....	674 mm
E - length to flywheel....	1527 mm
Engine weight (dry).....	1251 kg



### Combustion parameters <sup>1</sup>

Intake air temperature (max.)	45 °C
Intake air vacuum (min/max)	30/60 mbar
Intake air volume flow	2290 m <sup>3</sup> /h

Exhaust gas temperature	656 °C
Exhaust gas volume flow	7340 m <sup>3</sup> /h
Exhaust gas mass flow	2705 kg/h
Exhaust back pressure (min/max)	20/80 mbar

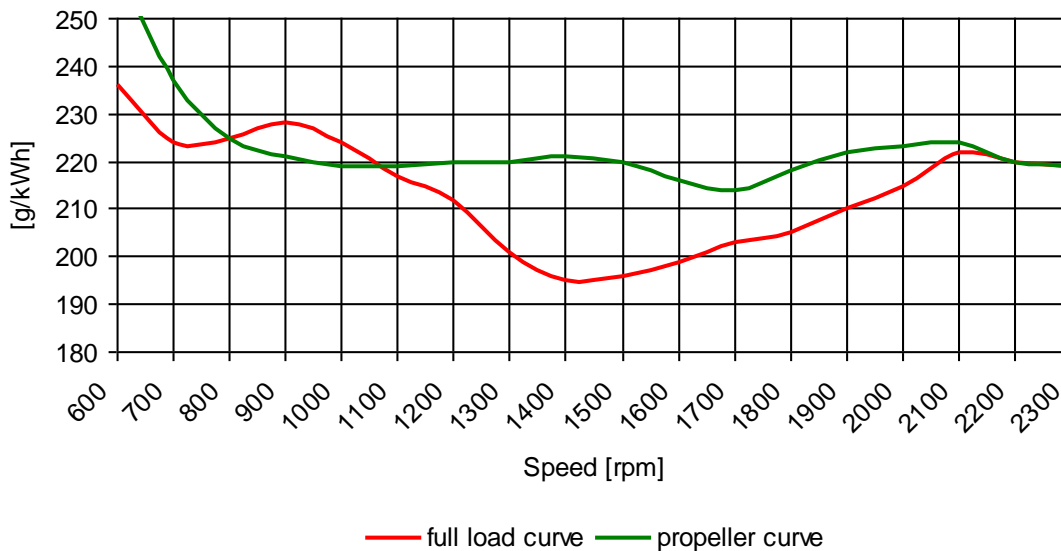
### Heat balance <sup>1</sup>

Exhaust gas heat	570 kW
Cooling water heat	280 kW
Intercooler heat	130 kW
Radiation heat	28 kW

### Noise emission (sound power) <sup>1</sup>

Engine surface noise (Lwa)	115,5 dB(A)
Free exhaust noise (Lwa)	129,7 dB(A)

### Specific fuel consumption<sup>2</sup>



< The rated power is based on reference conditions according to ISO 3046-1 (2002) >

< Intake air temperature, max. 45°C | sea water temperature, max. 32°C >

< Barometric pressure 1000 mbar | air humidity 60% >

< Exponent for propeller curve 2,5 >

**< Engine specifications are subjected to change without prior notice >**

<sup>1</sup> Values at rated power

<sup>2</sup> Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

<sup>3</sup> Values on propeller curve