WÄRTSILÄ 50DF

Main data

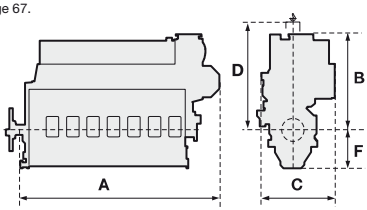
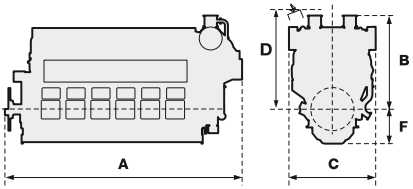
Cylinder bore ..... 500 mm
Piston stroke..... 580 mm
Cylinder output..... 950 kW/cyl
Speed .....500, 514 rpm
Mean effective pressure .....20.0, 19.5 bar
Piston speed..... 9.7, 9.9 m/s

Fuel specification:
Fuel oil ..... 730 cSt/50 °C
7200 sR1/100 °F
ISO 8217, category ISO-F-DMX, DMA and DMB

Natural gas
MethaneNumber: 80
LHV: min. 28 MJ/nm³, 5.5 bar
BSEC 7410 kJ/kWh

Rated power		
Engine type	50 Hz, 60 Hz	
	Engine kW	Gen. kW
6L50DF	5 700	5 500
8L50DF	7 600	7 330
9L50DF	8 550	8 250
12V50DF	11 400	11 000
16V50DF	15 200	14 670
18V50DF	17 100	16 500

Generator output based on a generator efficiency of 96.5%.

Engine dimensions (mm) and weights (tonnes)						
Engine type	A	B	C	D	F	Weight
6L50DF	8 115	3 580	2 850	3 820	1 455	96
8L50DF	9 950	3 600	3 100	3 820	1 455	128
9L50DF	10 800	3 600	3 100	3 820	1 455	148
12V50DF	10 465	4 055	3 810	3 600	1 500	175
16V50DF	12 665	4 055	4 530	3 600	1 500	220
18V50DF	13 725	4 280	4 530	3 600	1 500	240

For definitions see page 67.