

Engines and Generating Sets

Wärtsilä 50DF		IMO Tier III, EPA T3	
Cylinder bore	500 mm	Fuel specification: Fuel oil	
Piston stroke	580 mm	700 cSt/50°C	7200 sR1/100°F
Cylinder output	950, 975 kW/cyl	ISO 8217, category ISO-F-DMX, DMA and DMB	
Speed	500, 514 rpm		
Mean effective pressure	20.0 bar	BSEC 7150 kJ/kWh	
Piston speed	9.7, 9.9 m/s	BSGC 7110 kJ/kWh	

Rated power				
Engine type	50 Hz		60 Hz	
	Engine kW	Gen. kW	Engine kW	Gen. kW
6L50DF	5 700	5 500	5 850	5 650
8L50DF	7 600	7 330	7 800	7 530
9L50DF	8 550	8 250	8 775	8 470
12V50DF	11 400	11 000	11 700	11 290
16V50DF	15 200	14 670	15 600	15 050
18V50DF	17 100	16 500	17 550	16 940

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	3 475	3 270	4 000	1 455	96
8L50DF	10 230	3 920	3 505	4 000	1 455	128
9L50DF	11 140	3 920	3 505	4 000	1 455	148
12V50DF	10 410	4 055	3 810	3 600	1 500	175
16V50DF	13 085	4 400	4 730	3 600	1 500	220
18V50DF	14 180	4 400	4 730	3 600	1 500	240

For definitions see page 59.

