

Engines and Generating Sets

Wärtsilä Genset 34DF		IMO Tier III, EPA T3	
Cylinder bore	340 mm	Fuel specification: Fuel oil	
Piston stroke	400 mm	700 cSt/50°C	7200 sR1/100°F
Cylinder output	480, 500 kW/cyl	ISO 8217, category ISO-F-DMX, DMA and DMB	
Speed	720, 750 rpm		
Mean effective pressure	22.0 bar	BSEC 7280 kJ/kWh BSGC 7200 kJ/kWh	
Piston speed	9.6, 10.0 m/s		
Generator voltage	0.4–13.8 kV		
Generator efficiency	0.95–0.97		

Rated power				
Engine type	60 Hz		50 Hz	
	480 kW/cyl, 720 rpm		500 kW/cyl, 750 rpm	
	Engine kW	Gen. kW	Engine kW	Gen. kW
6L34DF	2 880	2 770	3 000	2 890
8L34DF	3 840	3 690	4 000	3 840
9L34DF	4 320	4 150	4 500	4 320
12V34DF	5 760	5 530	6 000	5 770
16V34DF	7 680	7 370	8 000	7 680

Dimensions (mm) and weights (tonnes)						
Engine type	A*	E*	I*	K	L*	Weight
6L34DF	8 765	2 290	1 450	2 345	4 000	60
8L34DF	10 410	2 960	1 630	2 345	4 010	76
9L34DF	10 610	2 890	1 630	2 345	4 180	87
12V34DF	10 260	3 060	1 900	2 120	4 335	99
16V34DF	11 465	3 360	1 850	2 120	4 445	124

* Dependent on generator type.
Generator output based on a generator efficiency of 96%.
For definitions see page 71.

