







HiMSEN Dual Fuel Engine

Hi-touch Marine & Stationary Engine

H35DF(V)



Engine Power Plant Sales Dep't

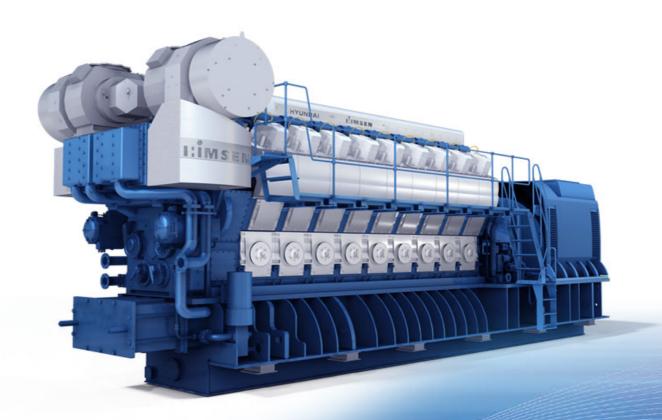
Tel:86) 0769-8352, 3198 E-mail:sale@soar.hk

24/7 Call Center

+86-4008-111-308

Anytime, Anywhere, Any matters Easy and convenient access!

copyright © 2021 Hyundai Heavy industries





Earth Friendly Engine

H35DF **HiMSEN Family...**

>> Design Philosophy

H35DF of HiMSEN Family has simple and smart design which is suitable for marine & stationary power generation application with gas diesel fuel with high reliability and performance. The key features are:

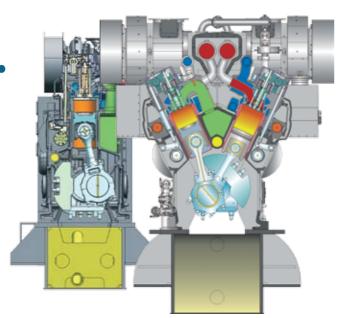
Economical and Ecological Engine with higher efficiency and lower emission, etc., which is based on the following specific designs;

- Optimized turbocharging with enhanced Miller Cycle.
- Lowest NOx emission satisfied with Tier I (Diesel mode) and Tier

 (Gas mode) without after-treatment device.

Reliable and Practical Engine

- Number of engine components is minimized for customer preference.
- Most of the components are directly accessible for easier maintenance.



No. of Cylinder V-type **Rated Speed Power per Cylinder Cylinder Bore Piston Stroke Mean Piston Speed Mean Effective Pressure Compression Ratio**

No. of Cylinder In-line type 6, 7, 8, 9 12, 14, 16, 18, 20 720 / 750 rpm 480 kW 350 mm 400 mm 9.6 / 10.0 m/s 20.8 / 20.0 bar 12.5:1

Major Advantages: Smart Electronic Engine Control System with Excellent Reliability

Cylinder Head

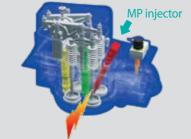
- Optimized port design
- High mixture flow





MicroPilot System

- High pressure injection
- Controllable fuel quantity



AFR Control

- Quick response for operation
- Efficiency, NOx control



■ Rated Power of Gen-Set at 100% Load

	Rated Output (kW)				
720 rpm / 60 Hz		750 rpm / 50 Hz			
Engine	Generator	Engine	Generator		
2,880	2,764	2,880	2,764		
3,360	3,225	3,360	3,225		
3,840	3,705	3,840	3,705		
4,320	4,168	4,320	4,168		
5,760	5,558	5,760	5,558		
6,720	6,518	6,720	6,518		
7,680	7,449	7,680	7,449		
8,640	8,380	8,640	8,380		
9,600	9,312	9,600	9,312		
	2,880 3,360 3,840 4,320 5,760 6,720 7,680 8,640	720 rpm / 60 Hz Engine Generator 2,880 2,764 3,360 3,225 3,840 3,705 4,320 4,168 5,760 5,558 6,720 6,518 7,680 7,449 8,640 8,380	720 rpm / 60 Hz 750 rpm Engine Generator Engine 2,880 2,764 2,880 3,360 3,225 3,360 3,840 3,705 3,840 4,320 4,168 4,320 5,760 5,558 5,760 6,720 6,518 6,720 7,680 7,449 7,680 8,640 8,380 8,640		

Remarks

- Based on alternator efficfiency of 96 97%.
- Specific Lubricating Oil Consumption: 0.5 g/kWh

(Tolerance: +25% depending on the operating conditions and 100% load)

7,270 kJ/kWh

183 g/kWh

1) ISO 3046/1 reference conditions & optimized at the reference

2) Heat rate & SFOC without engine driven pumps. (+5%

3) Fuel gas L.H.V. \geq 36 MJ/Nm³ with M.N. \geq 80.

720 rpm / 60 Hz | 750 rpm / 50 Hz

7,270 kJ/kWh

185 g/kWh

■ Heat Rate & SFOC

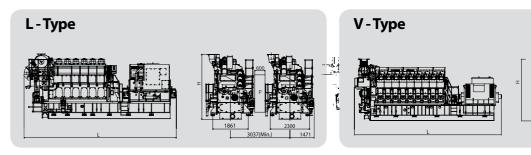
Heat rate @ Gas mode

SFOC @ Diesel mode

4) Warranted at 100% load.

■ Dimensions & Weights

Engine Type	Dimension (mm)		Dry Weight (ton)	
	L	Н	Engine	Gen-Set
6H35DF	8,890	4,367	34.7	69.6
7H35DF	9,486	4,538	39.6	78.1
8H35DF	10,196	4,538	42.5	83.0
9H35DF	11,189	4,538	45.6	90.1
12H35DFV	10,384	4,723	58.0	110.8
14H35DFV	11,155	4,723	65.3	123.3
16H35DFV	11,393	4,723	71.1	132.9
18H35DFV	12,444	4,794	78.3	143.2
20H35DFV	13,003	4,794	86.0	155.9



Remarks

- All dimensions and weight are approximate value and subject to change without prior notice.
- Free passage way, P, between engines, width 600 mm and height 2,000 mm.