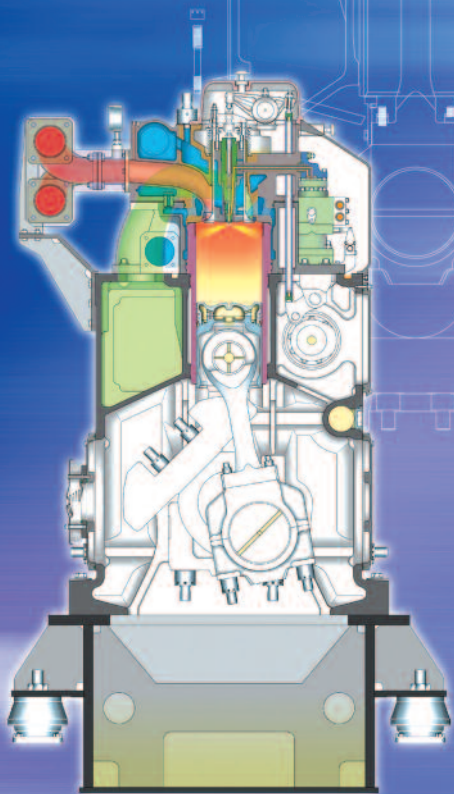
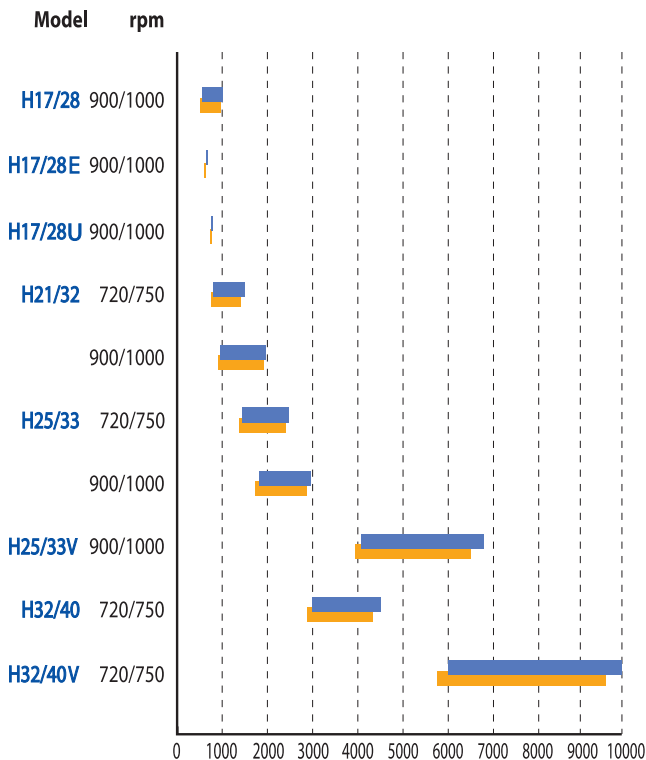




Engine (kW) 
Generator (kW) 

Marine & Offshore GenSets



Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 170 mm, Stroke: 280 mm

Main Data

Speed	900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
5H17/28	575	538	600	561
6H17/28	690	645	720	673
7H17/28	805	757	840	790
8H17/28	920	865	960	902

Based on alternator efficiency of 93.5~94%.

Specific Fuel Oil Consumption at Engine

Load	900 rpm	1000 rpm
100%	188 g/kWh	188 g/kWh

Main Data (for Higher Power Rating)

Speed	900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H17/28	750	701	750	701
7H17/28	875	823	875	823
8H17/28	1,000	940	1,000	940

Based on alternator efficiency of 93.5~94%.

**Specific Fuel Oil Consumption at Engine
(for Higher Power Rating)**

Load	900 rpm	1000 rpm
100%	191 g/kWh	191 g/kWh

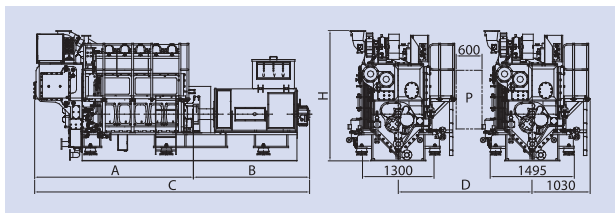
Specific Lubricating Oil Consumption

Lub. Oil: 0.6 g/kWh

Dimensions

900 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ¹⁾	C ¹⁾	H	Engine ²⁾	GenSet ^{1),3)}
	5	2,791	2,200	4,991	2,314	7.7	13.6
	6	3,071	2,200	5,271	2,314	8.5	14.5
	7	3,351	2,200	5,551	2,314	9.4	15.6
	8	3,631	2,320	5,951	2,314	10.4	16.7

1000 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ¹⁾	C ¹⁾	H	Engine ²⁾	GenSet ^{1),3)}
	5	2,791	2,200	4,991	2,314	7.7	13.6
	6	3,071	2,200	5,271	2,314	8.5	14.5
	7	3,351	2,200	5,551	2,314	9.4	15.6
	8	3,631	2,320	5,951	2,314	10.4	16.7



Remarks

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min. distance between engines 2,552 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.

Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 170 mm, Stroke: 280 mm

Main Data

Speed	900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H17/28E	660	618	660	618
6H17/28U	805	750	805	750

Based on alternator efficiency of 93.2~94%.

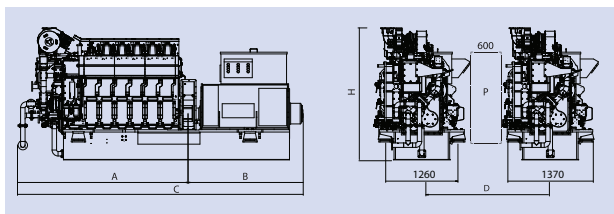
Specific Fuel Oil Consumption at Engine

	Load	900 rpm	1000 rpm
6H17/28E	100%	189 g/kWh	190 g/kWh
6H17/28U	100%	191 g/kWh	191 g/kWh

Specific Lubricating Oil Consumption*Lub. Oil: 0.6 g/kWh*

Dimensions

900 rpm	Cyl.	Dimension(mm)			Dry Mass(ton)		
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	6H17/28E	2,774	1,939	4,713	2,323	6.9	13.0
	6H17/28U	2,774	2,069	4,843	2,393	7.1	13.8

**Remarks**

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min distance between engines 2,445 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.

This type of engine is optimized as planning products.

1. Optimized capacity for front module (pump, cooler, filter, valve, etc) .
2. Only 6cyl. for pump cover.
3. Optimized design for crankshaft, engine module.
4. Reducing of weight, simplification, etc.

Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 210 mm, Stroke: 320 mm

Main Data

Speed	720 rpm		750 rpm		900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz		60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW
5H21/32	800	752	800	752	960	910	-	-
6H21/32	960	902	960	902	1,200	1,140	1,200	1,140
7H21/32	1,120	1,064	1,120	1,064	1,400	1,330	1,400	1,330
8H21/32	1,280	1,216	1,280	1,216	1,600	1,520	1,600	1,520
9H21/32	1,440	1,368	1,440	1,368	1,800	1,710	1,800	1,710

Based on alternator efficiency of 94~95%.

Specific Fuel Oil Consumption at Engine

Load	720 rpm		750 rpm		900 rpm		1000 rpm	
100%	182 g/kWh		182 g/kWh		183 g/kWh		185 g/kWh	

Exceptionally, 5H21/32 × 900 rpm is 190 g/kWh

Main Data (for Higher Power Rating)

Speed	720 rpm		750 rpm		900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz		60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H21/32	1,050	987	1,050	987	1,320	1,254	1,320	1,254
7H21/32	1,225	1,164	1,225	1,164	1,540	1,463	1,540	1,463
8H21/32	1,400	1,330	1,400	1,330	1,760	1,672	1,760	1,672
9H21/32	1,575	1,496	1,575	1,496	1,980	1,881	1,980	1,881

Based on alternator efficiency of 94~95%.

**Specific Fuel Oil Consumption at Engine
(for Higher Power Rating)**

Load	720 rpm		750 rpm		900 rpm		1000 rpm	
100%	184 g/kWh		184 g/kWh		185 g/kWh		187 g/kWh	

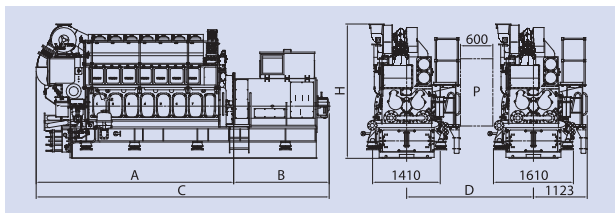
Specific Lubricating Oil Consumption

Lub. Oil: 0.6 g/kWh

Dimensions

720 / 750 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ¹⁾	C ¹⁾	H	Engine ²⁾	GenSet ^{1),3)}
	5	3,405	1,926	5,331	2,712	14.0	22.4
	6	3,781	1,977	5,758	2,712	15.6	23.5
	7	4,111	1,977	6,088	2,781	17.1	26.5
	8	4,453	2,175	6,628	2,781	18.5	29.1
	9	4,783	2,265	7,048	2,911	19.9	31.7

900 / 1000 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ¹⁾	C ¹⁾	H	Engine ²⁾	GenSet ^{1),3)}
	5	3,411	2,097	5,508	2,712	13.4	22.9
	6	3,781	1,977	5,758	2,781	15.1	26.1
	7	4,235	1,977	6,212	2,781	16.7	28.6
	8	4,453	2,175	6,628	2,911	18.4	29.1
	9	4,783	2,265	7,048	2,911	19.8	31.7



Remarks

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min. distance between engines 2,613 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.

Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 250 mm, Stroke: 330 mm

Main Data

Speed	720 rpm		750 rpm		900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz		60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H25/33	1,440	1,368	1,500	1,425	1,800	1,710	1,800	1,710
7H25/33	1,680	1,596	1,750	1,663	2,100	1,995	2,100	1,995
8H25/33	1,920	1,824	2,000	1,900	2,400	2,280	2,400	2,280
9H25/33	2,160	2,052	2,250	2,138	2,700	2,565	2,700	2,565

Based on alternator efficiency of 95%.

Specific Fuel Oil Consumption at Engine

Load	720 rpm		750 rpm		900 rpm		1000 rpm	
100%	180 g/kWh		180 g/kWh		181 g/kWh		181 g/kWh	

Main Data (for Higher Power Rating)

Speed	720 rpm		750 rpm		900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz		60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H25/33	1,560	1,482	1,650	1,568	1,890	1,796	1,980	1,881
7H25/33	1,820	1,729	1,925	1,829	2,205	2,095	2,310	2,195
8H25/33	2,080	1,976	2,200	2,090	2,520	2,394	2,640	2,508
9H25/33	2,340	2,223	2,475	2,351	2,835	2,693	2,970	2,822

Based on alternator efficiency of 95%.

**Specific Fuel Oil Consumption at Engine
(for Higher Power Rating)**

Load	720 rpm		750 rpm		900 rpm		1000 rpm	
100%	182 g/kWh		182 g/kWh		183 g/kWh		183 g/kWh	

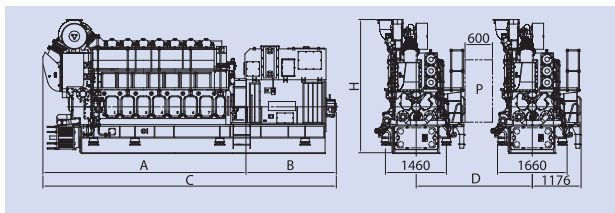
Specific Lubricating Oil Consumption

Lub. Oil: 0.6 g/kWh

Dimensions

720 / 750 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	6	4,414	2,262	6,676	2,961	20.2	29.8
	7	4,794	2,262	7,056	2,961	22.5	33.9
	8	5,311	2,262	7,573	3,241	24.1	39.5
	9	5,691	2,262	7,953	3,371	26.2	45.0

900 / 1000 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	6	4,414	2,262	6,676	2,961	20.2	29.8
	7	4,794	2,262	7,056	3,241	22.5	33.9
	8	5,311	2,340	7,651	3,371	24.1	39.5
	9	5,691	2,490	8,181	3,371	26.2	45.0



Remarks

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min. distance between engines 2,844mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.

Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 250 mm, Stroke: 330 mm

Main Data

Speed	900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
12H25/33V	4,080	3,917	4,080	3,917
14H25/33V	4,760	4,570	4,760	4,570
16H25/33V	5,440	5,222	5,440	5,222
18H25/33V	6,120	5,875	6,120	5,875
20H25/33V	6,800	6,528	6,800	6,528

Based on alternator efficiency of 96%.

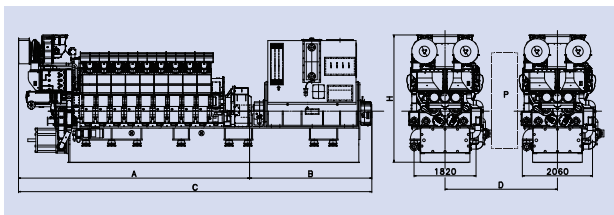
Specific Fuel Oil Consumption at Engine

Load	900 rpm	1000 rpm
100%	183 g/kWh	183 g/kWh

Specific Lubricating Oil Consumption*Lub. Oil: 0.6 g/kWh*

Dimensions

900 / 1000 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ¹⁾	C ¹⁾	H	Engine ²⁾	GenSet ^{1),3)}
	12	5,524	3,334	8,858	3,750	33.5	58.2
	14	5,944	3,504	9,448	3,750	36.5	63.4
	16	6,364	3,682	10,046	3,750	39.5	69.6
	18	6,784	3,772	10,556	3,750	42.5	77.5
	20	7,204	3,727	10,931	3,750	45.5	79.5

**Remarks**

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min. distance between engines 3,840 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.

Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 320 mm, Stroke: 400 mm

Main Data

Speed	720 rpm		750 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H32/40	3,000	2,880	3,000	2,880
7H32/40	3,500	3,360	3,500	3,360
8H32/40	4,000	3,840	4,000	3,840
9H32/40	4,500	4,320	4,500	4,320

Based on alternator efficiency of 96%.

Specific Fuel Oil Consumption at Engine

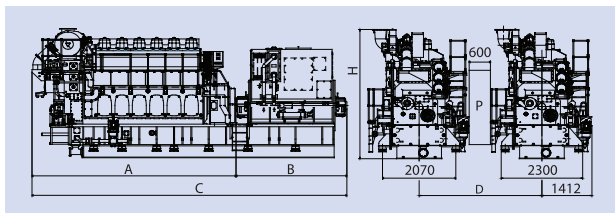
Load	720 rpm	750 rpm
100%	179 g/kWh	181 g/kWh

Specific Lubricating Oil Consumption*Lub. Oil: 0.7 g/kWh*

Dimensions

720 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	6	5,760	3,130	8,890	3,959	33.7	68.6
	7	6,112	3,374	9,486	4,130	38.6	77.1
	8	6,602	3,594	10,196	4,130	41.5	82.0
	9	7,092	4,097	11,189	4,130	44.6	89.1

750 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	6	5,760	3,130	8,890	3,959	33.7	68.6
	7	6,112	3,374	9,486	4,130	38.6	77.1
	8	6,602	3,594	10,196	4,130	41.5	82.0
	9	7,092	4,097	11,189	4,130	44.6	89.1



Remarks

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min. distance between engines 3,408 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.

Marine & Offshore GenSets

HYUNDAI-HIMSEN

Bore: 320 mm, Stroke: 400 mm

Main Data

Speed	720 rpm		750 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
12H32/40V	6,000	5,760	6,000	5,760
14H32/40V	7,000	6,720	7,000	6,720
16H32/40V	8,000	7,680	8,000	7,680
18H32/40V	9,000	8,640	9,000	8,640
20H32/40V	10,000	9,600	10,000	9,600

Based on alternator efficiency of 96%.

Specific Fuel Oil Consumption at 100 % Engine Load

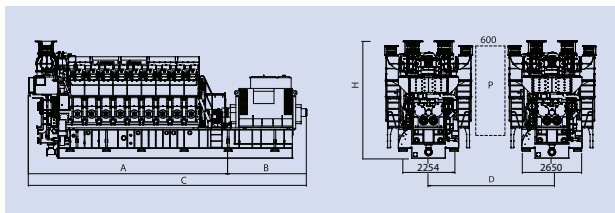
Load	720 rpm	750 rpm
100%	179 g/kWh	181 g/kWh

Specific Lubricating Oil Consumption*Lub. Oil: 0.7 g/kWh*

Dimensions

720 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	12	6,624	3,760	10,384	4,723	56.0	108.8
	14	7,295	3,860	11,155	4,723	63.3	121.3
	16	7,914	3,479	11,393	4,723	69.1	130.9
	18	8,585	3,859	12,444	4,794	76.3	141.2
	20	9,344	3,659	13,003	4,794	84.0	153.9

750 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	12	6,624	3,760	10,384	4,723	56.0	108.8
	14	7,295	3,860	11,155	4,723	63.3	121.3
	16	7,914	3,479	11,393	4,723	69.1	130.9
	18	8,585	3,859	12,444	4,794	76.3	141.2
	20	9,344	3,659	13,003	4,794	84.0	153.9



Remarks

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: HHI-EES).

D: Min. distance between engines 4,405 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.



HiMSEN...

The best solution for all types of marine vessels and offshore applications with proven reliability, low emission, low operation cost, multi-fuel capability...

Our extensive R&D facilities enable HHI to provide the customers with high quality and excellent services in all phases of designing, production, assembly and commissioning of HiMSEN propulsion packaged system.