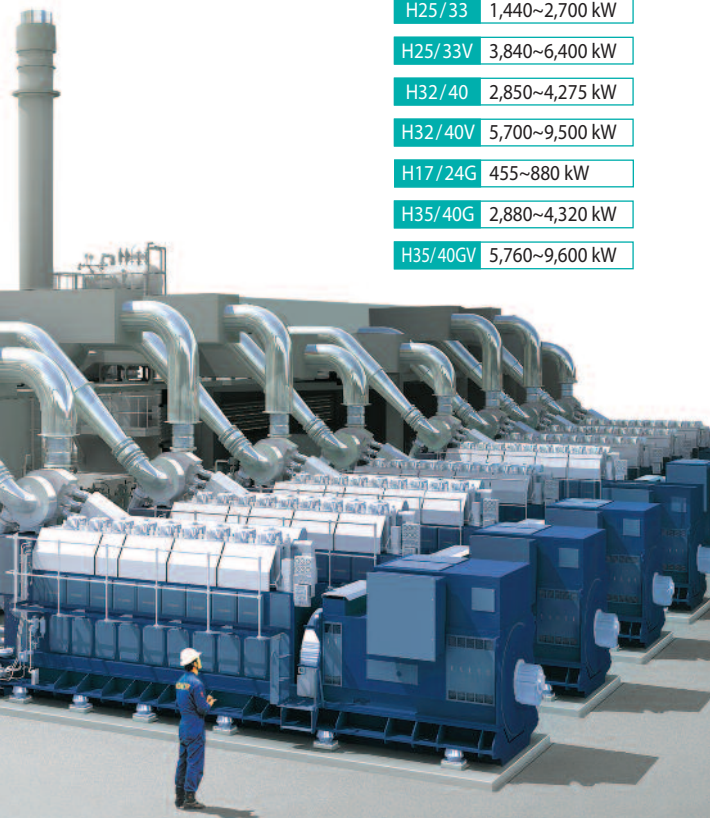


Stationary GenSets

Power Range

H17/28	575~960 kW
H21/32	800~1,800 kW
H25/33	1,440~2,700 kW
H25/33V	3,840~6,400 kW
H32/40	2,850~4,275 kW
H32/40V	5,700~9,500 kW
H17/24G	455~880 kW
H35/40G	2,880~4,320 kW
H35/40GV	5,760~9,600 kW

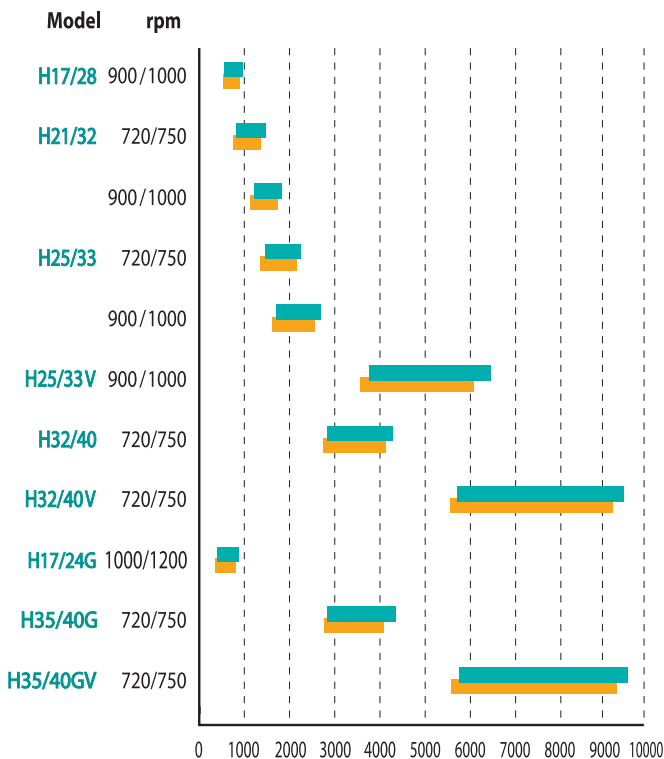




20 MW HiMSEN Engine Diesel Power Plant (9H25/33 x 8 Sets)

Engine (kW) 
Generator (kW) 

Stationary GenSets



Stationary 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%	189 g/kWh	189 g/kWh

Heat Rate

Load	Unit	900 rpm	1000 rpm
100%	kJ/kWh_m	8,070	
	kJ/kWh_e	8,631	

Based on alternator efficiency 93.5%.

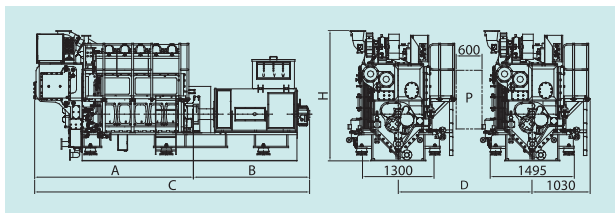
Specific Lubricating Oil Consumption

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.

Stationary 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.

Heat Rate

Load	Unit	720rpm	750 rpm	900rpm	1000 rpm
100%	kJ/kWh _m	7,771	7,771	7,814	7,899
	kJ/kWh _e	8,267	8,267	8,313	8,404

Based on alternator efficiency 94%.

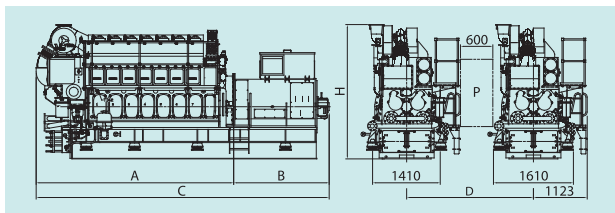
Specific Lubricating Oil Consumption

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.

Stationary 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	1,740	1,653	1,800	1,710
7H25/33	1,680	1,596	1,750	1,663	2,030	1,929	2,100	1,995
8H25/33	1,920	1,824	2,000	1,900	2,320	2,204	2,400	2,280
9H25/33	2,160	2,052	2,250	2,138	2,610	2,480	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

Heat Rate

Load	Unit	720 / 750 rpm	900 / 1000 rpm
100%	kJ/kWh_m	7,686	7,729
	kJ/kWh_e	8,090	8,135

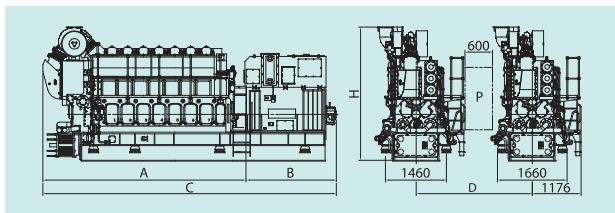
Specific Lubricating Oil Consumption

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.

Stationary 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	3,840	3,648	3,840	3,648
14H25/33V	4,480	4,256	4,480	4,256
16H25/33V	5,120	4,864	5,120	4,864
18H25/33V	5,760	5,472	5,760	5,472
20H25/33V	6,400	6,080	6,400	6,080

Based on alternator efficiency of 96%.

Specific Fuel Oil Consumption at Engine

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

Heat Rate

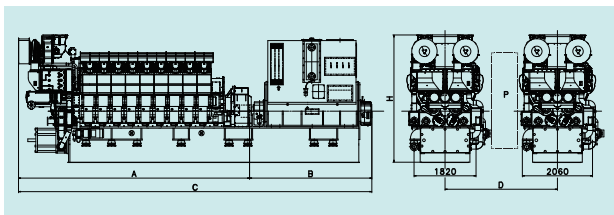
Load	Unit	900 rpm	1000 rpm
100%	kJ/kWh_m	7,729	
	kJ/kWh_e	8,135	

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.

Stationary 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	2,850	2,750	2,850	2,750
7H32/40	3,325	3,209	3,325	3,209
8H32/40	3,800	3,667	3,800	3,667
9H32/40	4,275	4,125	4,275	4,125

1) Based on alternator efficiency of 96.5%.

2) In case of diesel oil (Distillate Fuels ISO 8217 DM Grade) operation continuously, 500 kW/cyl, is available.

Specific Fuel Oil Consumption at Engine

Load	720 rpm	750 rpm
100%	178 g/kWh	180 g/kWh

Heat Rate

Load	Unit	720 rpm	750 rpm
100%	kJ/kWh_m	7,600	7,686
	kJ/kWh_e	7,876	7,965

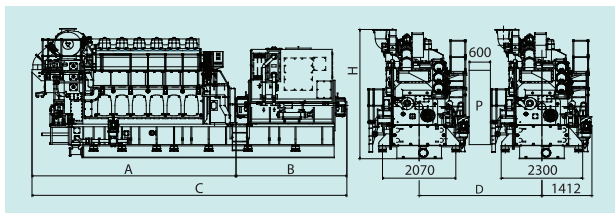
Specific Lubricating Oil Consumption

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.

Stationary 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	5,700	5,529	5,700	5,529
14H32/40V	6,650	6,450	6,650	6,450
16H32/40V	7,600	7,372	7,600	7,372
18H32/40V	8,550	8,243	8,550	8,243
20H32/40V	9,500	9,215	9,500	9,215

- 1) Based on alternator efficiency of 97%.
- 2) In case of diesel oil (Distillate Fuels ISO 8217 DM Grade) operation continuously, 500 kW/cyl, is available.

Specific Fuel Oil Consumption at Engine

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

Heat Rate

Load	Unit	720 rpm	750 rpm
100%	kJ/kWh_m	7,643	7,729
	kJ/kWh_e	7,880	7,968

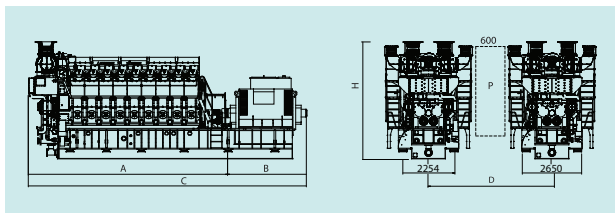
Specific Lubricating Oil Consumption

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.

Stationary GenSets

HYUNDAI-HIMSEN

Bore: 170 mm, Stroke: 240 mm

Main Data

Speed	1000 rpm		1200 rpm	
Frequency	50 Hz		60 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
5H17/24G	455	428	550	517
6H17/24G	546	513	660	620
7H17/24G	637	599	770	724
8H17/24G	728	684	880	827

Based on alternator efficiency of 94%.

Heat Rate

Load	Unit	1000 rpm	1200 rpm
100%	kJ/kWh_m	8,746	
	kJ/kWh_e	9,305	

Fuel gas based on LNG, LCV 49,138 kJ/kg, Methane No. 73.

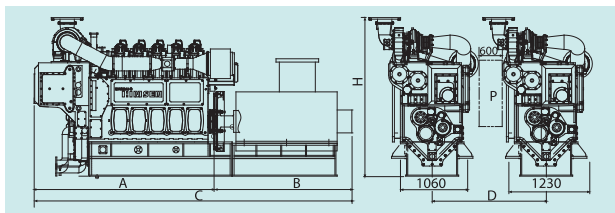
Specific Lubricating Oil Consumption

Lub. Oil: 0.3 g/kWh

Dimensions

1000 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	5	2,772	2,045	4,817	2,891	6.4	11.6
	6	3,052	2,045	5,097	2,891	7.2	13.4
	7	3,332	2,045	5,377	2,891	8.0	14.5
	8	3,612	2,045	5,657	2,958	8.8	15.6

1200 rpm	Cyl.	Dimension(mm)				Dry Mass(ton)	
		A	B ₁₎	C ₁₎	H	Engine ₂₎	GenSet _{1),3)}
	5	2,772	2,045	4,817	2,891	6.4	11.6
	6	3,052	2,045	5,097	2,891	7.2	13.4
	7	3,332	2,045	5,377	2,891	8.0	14.5
	8	3,612	2,045	5,657	2,958	8.8	15.6



Remarks

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

D: Min. distance between engines 2,425 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.

Stationary GenSets

HYUNDAI-HIMSEN

Bore: 350 mm, Stroke: 400 mm

Main Data

Speed	720 rpm		750 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
6H35/40G	2,880	2,765	2,880	2,765
7H35/40G	3,360	3,226	3,360	3,226
8H35/40G	3,840	3,686	3,840	3,686
9H35/40G	4,320	4,147	4,320	4,147

Based on alternator efficiency of 96%.

Heat Rate

Load	Unit	720 rpm	750 rpm
100%	kJ/kWh_m	7,370	
	kJ/kWh_e	7,676	

Fuel gas based on LNG, LCV 49,138 kJ/kg, Methane No. 73.

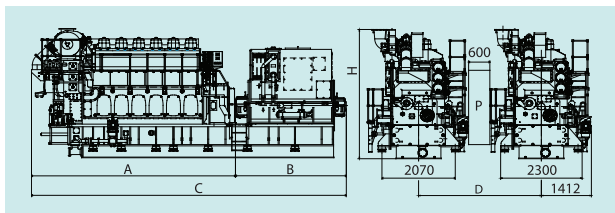
Specific Lubricating Oil Consumption

Lub. Oil: 0.4 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	9,900	3,759	33.7	68.6
	7	6,112	3,374	10,390	3,882	38.6	77.1
	8	6,602	3,594	11,175	4,132	41.5	82.0
	9	7,092	4,097	11,765	4,132	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	9,900	3,759	33.7	68.6
	7	6,112	3,374	10,390	3,882	38.6	77.1
	8	6,602	3,594	11,175	4,132	41.5	82.0
	9	7,092	4,097	11,765	4,132	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.

Stationary GenSets

HYUNDAI-HIMSEN

Bore: 350 mm, Stroke: 400 mm

Main Data

Speed	720 rpm		750 rpm	
Frequency	60 Hz		50 Hz	
	Eng. kW	Gen. kW	Eng. kW	Gen. kW
12H35/40GV	5,760	5,530	5,760	5,530
14H35/40GV	6,720	6,451	6,720	6,451
16H35/40GV	7,680	7,373	7,680	7,373
18H35/40GV	8,640	8,294	8,640	8,294
20H35/40GV	9,600	9,216	9,600	9,216

Based on alternator efficiency of 97%.

Heat Rate

Load	Unit	720 rpm	750 rpm
100%	kJ/kWh_m	7,370	
	kJ/kWh_e	7,598	

Fuel gas based on LNG, LCV 49,138 kJ/kg, Methane No. 73.

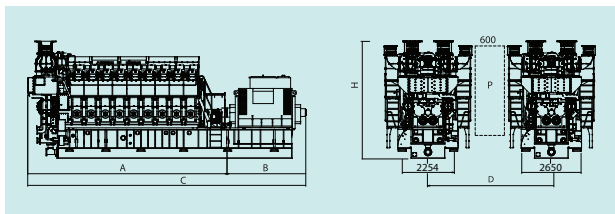
Specific Lubricating Oil Consumption

Lub. Oil: 0.4 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.



REGLA PPS

REGLA 47.6 MW Packaged Power Station in Cuba
(HYUNDAI-HiMSEN 9H21/32 × 28 Sets)

Features

- Base load operation
- Diesel oil / Heavy fuel oil / Nature gas use
- Compact 40-feet container size
- Mobile type (option)
- Environmentally comfortable
- Low cost of operating and maintenance

Application

- Captive power
- Construction site
- Isolated area
- Rental business
- Pumping station
- Independent power producer

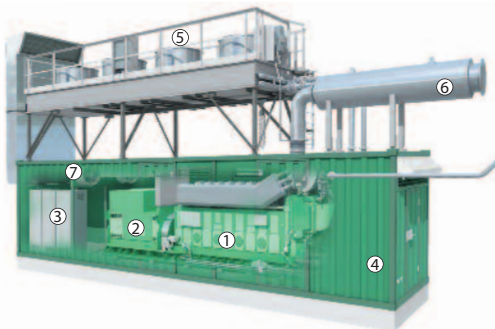
General Specifications

Engine Model	6H17/28	8H17/28	6H21/32	8H21/32	9H21/32
Engine (kW)	690/720	920/960	1,200	1,600	1,800
Generator (kW)	645/673	865/902	1,140	1,520	1,710
Total Weight (ton)	24	30	42	48	50
Dimension (W × H × L)	2.4 m × 3.4 m × 12 m (Container Size)				
Cooling Method	Radiator / Cooling Tower				
Speed	900 rpm / 1,000 rpm				
Fuel	Diesel oil / Heavy fuel oil				

General Specifications

Engine Model	5H17/24G	6H17/24G	7H17/24G	8H17/24G	9H17/24G
Engine (kW)	455/550	546/660	637/770	728/880	819/990
Generator (kW)	428/817	513/620	599/723	684/827	770/930
Total Weight (ton)	22	24	25	26	28
Dimension (W × H × L)	2.4 m × 2.9 m × 12 m (Container Size)				
Cooling Method	Radiator / Cooling Tower				
Speed	1,000 rpm / 1,200 rpm				
Fuel	Natural Gas				

※ The MCR will be based on ISO condition.



- | | |
|-----------------|-------------------------------|
| ① Engine | ⑤ Radiator |
| ② Generator | ⑥ Exhaust gas silencer |
| ③ Control panel | ⑦ Ventilation air exhaust fan |
| ④ Enclosure | |