

DIESEL GENERATOR

HYUNDAI DIESEL GENERATOR SETS



HHI pursues your with

HHI, Hyundai Heavy Industries Co. Ltd., is one of the world's leading synchronous Diesel Generator Set manufacturers.

With proven performance, Hyundai's Diesel Generator Set meets or exceeds our customer's need for service, safety and engineering.

With proven performance and extensive expertise, HHI diesel generator sets offer excellent performance, versatility, reliability in extreme climate and demanding applications worldwide.

Hyundai satisfies its customers by utilizing advanced technology, continuous product improvement, and maintaining an uncompromising commitment to innovation in order to give the customers the confidence to recommend Hyundai Diesel Generators for any application.



▲ High-Speed Genset
(Mounted Panel Type)



▲ High-Speed Genset
(Radiator Type)

gratification our best quality

Emergency Power

- ▶ for Intelligent Building
- ▶ for Broadcasting Facility
- ▶ for Apartment Housing
- ▶ for Hotel, Hospital, etc.
- ▶ for Special SCR Load, etc.

Continuous Power

- ▶ for Co-generation Power Station
- ▶ for Peak-Shaving in Summer and Winter
- ▶ for Temporary Power at a Construction Site

High-Speed Gensets

Output	20~2,000 kW
Frequency	60 Hz or 50 Hz
Voltage	200 ~ 13,800 V
Revolution	1800 rpm or 1500 rpm
Cooling by	Radiator or Heat Exchanger

Medium-& Low-Speed Gensets

Output	465~20,000 kW
Frequency	60 Hz or 50 Hz
Voltage	380 ~ 13,800 V
Revolution	1200 rpm or below
Cooling by	Remote Radiator or Heat Exchanger



▲ Medium-Speed Genset
(Heat Exchanger Type)

C o n t e n t s

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Features of Diesel Generator Sets



Features of Diesel Generator Sets

Various Diesel Engines

to supply various worldwide engine brands according to customers request.

HMC, DAEWOO, VOLVO, JOHN DEERE, CUMMINS, MTU, MITSUBIHI, PERKINS, CATERPILLAR

Large Battery Charger

to check the charging voltage and increase capacity to shorten charging time.

- 20-300 kW: 5 A
- above 320 kW: 10 A

Sound Attenuated Silencer

to use durable expanded silencer and internal sound-attenuated material to enhance attenuation efficiency and adiabatic rate of silencer.

- Attenuation: 25dB (A)

Convenient Fuel Service Tank

to protect engine from rust with rustproof paint on the interior surface of fuel tank and attach level gauge on front surface of floor-standing fuel tank to check fuel level.



▲ Durable and Efficient Alternator



▲ Safe and Convenient Terminal Box



▲ Durable Jacket Water Heater



▲ Mounted Large Fuel Tank

Durable and Efficient Alternator

to be manufactured per JEM 1354, IEC, and tested per IEEE standards.

Reliable Circuit Breaker

to adopt reliable HHI breakers which have been certified and approved by worldwide authorized agencies.

Safe and Convenient Terminal Box

to easily connect the terminal box with ample clearance between main power cables so as to meet safety standards.

Durable Jacket Water Heater

to improve the quality of JW heater by using high pressure hose and connector in order to prevent water from dripping out of a worn-out hose.

Air Cutting in Fuel Line

to keep air from going into the fuel return line with check valve during any long term stop.

Strongly Built Common Bed

to reinforce bed above 250 mm in height taking vibration and shipping into consideration.

Reliable Maintenance Tool

to supply "KS" marked tool for operation & maintenance.



Mounted Control Panel



Mounted Control Panel

Mounted Control Panel

- | | | |
|----------------------------|--------------------|---------------------------------|
| • Running Hours | Hr | • Engine Control Unit (ECU) |
| • Engine Speed | rpm | • Fault Indicators |
| • Lube Oil Pressure | kg/cm ² | • Voltage/Ampere Switch (VS/AS) |
| • Jacket Water Temperature | °C | • Starting Switch |
| • Voltmeter | Vac | • Voltage Adjusting Switch |
| • Ammeter | A | • Emergency Stop Button |
| • Frequency Meter | Hz | • Dimension W×H×D 500×330×300 |
| • Battery Voltmeter | Vdc | |

Standard Protection Device

Protection	Alarm Lamp	Alarm horn	CB Trip	Engine Stop
Starting Failure	●	●	●	●
Over Speed	●	●	●	●
High J.W. Temp.	●	●	●	●
Low L.O. Pressure	●	●	●	●
Emergency Stop	●	●	●	●
Over Voltage	●	●	●	●
Over Current	○	○	●	○





Floor-Standing Control Panel

Floor-Standing Control Panel

Generator Control Panel

- | | | |
|---------------------------------------|-----|--|
| • Wattmeter | kW | • Engine Control Unit (ECU) |
| • Voltmeter | Vac | • Battery Charger |
| • Ammeter | A | • Fault Indicator |
| • Frequency Meter | Hz | • Voltage / Ampere Switch (VS / AS) |
| • Power Factor Meter | PF | • Starting Switch |
| • Battery Voltmeter | Vdc | • Voltage Adjusting Switch |
| • Battery Ammeter | Adc | • Emergency Stop Button |
| • Electric Over Voltage Relay (EOVR) | | • Main Circuit Breaker (ACB or VCB) |
| • Electric Over Current Relay (EOCR) | | • Dimension (ACB) W×H×D (mm) 800×2000×1060 |
| • Electric Under Voltage Relay (EUVR) | | • Dimension (VCB) W×H×D (mm) 800×2350×2260 |

Standard Protection Device

Protection	Alarm Lamp	Alarm horn	CB Trip	Engine Stop
Starting Failure	●	●	●	●
Over Speed	●	●	●	●
High J.W Temp.	●	●	●	●
Low L.O. Pressure	●	●	●	●
Emergency Stop	●	●	●	●
Over Voltage	●	●	●	●
Under Voltage	●	●	●	○
Over Current	●	●	●	○
Low F.O. Level	●	●	○	○

Specifications 17 kW~320 kW (1800/1500 rpm)

GENSET		Model	HEG	HEG	HEG	HEG	HEG
		60Hz	17HS	37HS	55HS	80HS	115HS
		50Hz	12HE	30HE	36HE	67HE	97HE
GENSET	OUTPUT (kW)	Standby	17/12	37/30	55/36	80/67	115/97
		Prime	15/11	33/26	50/32	73/60	105/87
		rpm / Hz	1800/1500rpm				
	Dimension (mm)	Length	1600	2000	2000	2200	2500
		Width	570	740	740	780	770
		Height	1100	1202	1202	1219	1193
	Weight (kg)		845	958	968	1400	1410
	Exhaust Pipe Size (mm)		50A	50A	65A	65A	65A
	Radiator Size W × H (mm)		610 × 540	610 × 540	610 × 540	706 × 670	706 × 670
Ventilation Flow Rate (m ² /min)		71.7	81.9	83.4	91.1	93.1	
Engine	Maker		HMC	HMC	HMC	HMC	HMC
	Model		D4BB-G	D4AF-G	D4AK-G	D6BR-G	D6BT-G
	Output (PS)	Standby	28/23	60/50	82/60	130/110	180/155
		Prime	25/21	54/45	74/54	117/99	162/140
	Type		4-cycle, water cooled				
	No of Cylinders		I-4	I-4	I-4	I-6	I-6
	Bore × Stroke (mm)		91.9 × 100	104 × 105	100 × 105	118 × 115	118 × 115
	Cylinder Displacement (ℓ)		2.607	3.568	3.298	7.54	7.54
	Governor Type		Mechanical				
	Recommended Fuel Oil		ASTM D9775 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil				
	Fuel Consumption (ℓ/hr)		3.2/1.8	10.7/7.0	15/8.7	20.7/15.6	29.8/22.7
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)				
	Lub. Oil Capacity (ℓ)		5.4	8.5	8.5	13	13
	Cooling System		Water cooled by radiator				
	Coolant Capacity (ℓ)		15	20	20	25	25
Starting System		Electric cell motor					
Alternator	Type		Brushless self-exciting				
	Voltage Rating		380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)				
	Frequency/Pole		60/50Hz, 4P				
	Phase-Wire/Power Factor		3-phase 4-wire / P.F 0.8				
	Insulation/Protection Class		F (H) / IP-20 (IP -22, IP-23)				
Panel	Mounted	Control	Semi-Auto Control				
		Protection	IP-40				
		Circuit Breaker	MCCB 4P				
		Meters	Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch				
	Floor Standing	Control	Auto Control				
		Protection	IP-40				
		Circuit Breaker	MCCB 4P		ACB 4P		
		Meters	Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor, Battery Voltage/Ammeter,				

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby:** power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime :** max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG
125HS	175HS	200HS	230HS	250HS	275HS	300HS	320HS
105HE	132HE	172HE	200HE	-	230HE	260HE	-
125/105	175/132	200/172	230/200	250/-	275/230	300/260	320/-
114/95	159/118	182/154	210/184	228/-	250/200	273/230	280/-
1800/1500rpm							
2500	2500	2500	2600	2700	2700	2700	2700
860	880	880	1080	1300	1300	1300	1300
1405	1460	1460	1430	1500	1500	1500	1500
1935	2072	2275	2617	2850	2850	2850	2850
65A	90A	90A	90A	100A	100A	100A	100A
742×830	742×830	742×830	790×860	838×1000	838×1000	838×1000	838×1000
130	285	285	294.2	504.3	504.3	504.3	520
HMC	HMC	HMC	HMC	HMC	HMC	HMC	HMC
D6AU-G	D6AZ-G2	D6AZ-G1	D6AC-G	D6CA-G3	D6CA-G3	D6CA-G2	D6CA-G1
190/170	300/210	300/270	350/320	410/-	410/360	450/400	490/-
171/153	270/189	270/243	315/288	400/-	400/320	430/360	440/-
4-cycle, water cooled							
I-6	I-6	I-6	I-6	I-6	I-6	I-6	I-6
134×140	134×140	134×140	130×140	133×155	133×155	133×155	133×155
11.14	11.14	11.14	11.14	12.92	12.92	12.92	12.92
Mechanical				Electronic			
ASTM D9775 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil							
32.8/25	43.3/32	49.5/38	56/45	61/-	67/-	72/56	77/-
API CD or CF (SAE 15W/40)							
24	24	24	24	28	28	28	28
Water cooled by radiator							
37	37	37	40	61	61	61	61
Electric cell motor							
Brushless self-exciting							
380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)							
60/50Hz, 4P							
3-phase 4-wire / P.F 0.8							
F (H) / IP-20 (IP -22, IP-23)							
Semi-Auto Control							
IP-40							
MCCB 4P							
Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch							
Auto Control							
IP-40							
ACB 4P							
Phase Selection Switch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button							

2. Operating Conditions

- **Ambient temperature:** -15°C~40°C
- **Standard altitude:** below 1000 m sea level
- **Relative humidity:** below 85%
- **Installation area:** indoor (temp. 5°C~40°C)

Specifications 75 kW~515 kW (1800/1500 rpm)

GENSET		Model	HEG	HEG	HEG	HEG	HEG
		60Hz	75VS	90VS	115VS	140VS	175VS
		50Hz	70VE	85VE	110VE	130VE	160VE
GENSET	OUTPUT (kW)	Standby	75/70	90/85	115/110	140/130	175/160
		Prime	68/65	82/79	105/100	125/120	150/140
		rpm / Hz	1800/1500 rpm				
	Dimension (mm)	Length	1979	2189	2157	2325	2302
		Width	664	732	741	866	1001
		Height	1230	1230	1300	1300	1514
	Weight (kg)		1050	1250	1400	1500	1688
	Exhaust Pipe Size (mm)		80A	80A	80A	80A	100A
	Radiator Size W×H (mm)		450×523	440×609	667×631	660×701	941×951
Ventilation Flow Rate (m ² /min)		114	115.5	148	200	194.5	
Engine	Maker		VOLVO	VOLVO	VOLVO	VOLVO	VOLVO
	Model		TD520GE	TAD520GE	TD720GE	TAD720GE	TWD710G
	Output (HP)	Standby	121/116	150/139	182/174	222/208	271/246
		Prime	111/105	137/128	167/159	203/190	230/218
	Type		4-cycle, water cooled, turbocharged				
	No of Cylinders		I-4	I-4	I-6	I-6	I-6
	Bore × Stroke (mm)		108 × 130	108 × 130	108 × 130	108 × 130	104.77 × 130
	Cylinder Displacement (ℓ)		4.76	4.76	7.15	7.15	6.73
	Governor Type		Mechanical				
	Recommended Fuel Oil		ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil				
	Fuel Consumption (ℓ /hr)		19.1/18.6	21.8/20.8	29/27.6	33.6/30.5	43.5/39.2
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)				
	Lub. Oil Capacity (ℓ)		11	11	17	17	24
	Cooling System		Water cooled by radiator				
	Coolant Capacity (ℓ)		22	19.7	22	23.8	26
Starting System		Electric motor					
Alternator	Type		Brushless self-exciting				
	Voltage Rating		380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)				
	Frequency, Pole		60/50 Hz, 4P				
	Phase-Wire/Power Factor		3PH- 4W / P.F 0.8				
	Insulation/Protection Class		H / IP-22 (IP-23)				
Panel	Mounted	Control	Semi-Auto Control				
		Protection	IP-40				
		Circuit Breaker	MCCB 4P				
		Meters	Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch				
	Floor Standing	Control	Auto Control				
		Protection	IP-40				
		Circuit Breaker	ACB 4P				
		Meters	Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor, Battery Voltage/Ammeter,				

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby:** power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime** : max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG 200VS 180VE	HEG 225VS 220VE	HEG 250VS 240VE	HEG 260VS -	HEG 300VS 285VE	HEG 350VS 330VE	HEG 400VS 360VE	HEG 450VS 410VE	HEG 515VS 450VE
200/180	225/220	250/240	260/-	300/285	350/330	400/360	450/410	515/450
185/160	205/200	210/205	230/-	275/260	320/300	365/330	410/375	465/410
1800/1500 rpm								
2354	2458	2657	2707	2948	2948	2948	3264	3344
877	945	945	945	1120	1120	1120	1089	1261
1491	1491	1636	1636	1587	1587	1587	1765	1765
1738	1806	1985	2035	2470	2635	2690	2992	3091
100A	100A	100A	100A	125A	125A	125A	150A	150A
785 × 1001	795 × 1001	951 × 1140	951 × 1140	910 × 890	910 × 890	910 × 890	951.4 × 1140	1123 × 1132
173.5	193	223	210	296	296	385	534	450
VOLVO	VOLVO	VOLVO	VOLVO	VOLVO	VOLVO	VOLVO	VOLVO	VOLVO
TWD740GE	TAD740GE	TAD1030GE	TAD1031GE	TAD1240GE	TAD1241GE	TAD1242GE	TAD1630GE	TAD1631GE
321/277	352/336	393/367	400/-	469/435	534/494	611/541	672/608	768/660
292/253	321/306	329/311	366/-	428/397	488/452	558/494	612/554	687/601
4-cycle, water cooled, turbocharged								
I-6	I-6	I-6	I-6	I-6	I-6	I-6	I-6	I-6
107 × 135	107 × 135	120.65 × 140	120.65 × 140	131 × 150	131 × 150	131 × 150	144 × 165	144 × 165
7.28	7.28	9.6	9.6	12.13	12.13	12.13	16.12	16.12
Electronic								
ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil								
50.5/43.5	53.8/52.6	64.6/60.6	71.1/-	74.7/67.5	84.1/78.2	101.6/85.3	118.5/105.4	132.3/114.1
API CD or CF (SAE 15W/40)								
24	24	32	32	31	31	31	57	57
Water cooled by radiator								
26	36.9	37	37	44	44	44	60	64
Electric motor								
Brushless self-exciting								
380/220V (220/127V, 440/254V, 480/277V, 3300V, 6600V, 11000V, 13800V)								
60/50 Hz, 4P								
3PH- 4W / P.F 0.8								
H / IP-22 (IP-23)								
Semi-Auto Control								
IP-40								
MCCB 4P								
Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch								
Auto Control								
IP-40								
ACB 4P								
Phase Selection Switch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button								

2. Operating Conditions

- **Ambient temperature:** -15°C~40°C
- **Standard altitude:** below 1000 m sea level
- **Relative humidity:** below 85%
- **Installation area:** indoor (temp. 5°C~40°C)

Specifications 20 kW~300 kW (1800/1500 rpm)

GENSET		Model	HEG	HEG	HEG	HEG
		60Hz	20DS	28DS	50DS	60DS
		50Hz	15DE	23DE	40DE	50DE
GENSET	OUTPUT (kW)	Standby	20/15	28/23	50/40	60/50
		Prime	17/13	25/20	45/34	50/44
		rpm / Hz	1800 /1500 rpm			
	Dimension (mm)	Length	1990	2140	2260	2597
		Width	770	770	750	870
		Height	1460	1460	1460	1460
	Weight (kg)		650	850	1063	1300
	Exhaust Pipe Size (mm)		65A	65A	65A	65A
	Radiator Size W×H (mm)		685×480	685×480	660×720	760×590
Ventilation Flow Rate (m ² /min)		93.5	113.8	173.8	225.8	
Engine	Maker		DAEWOO	DAEWOO	DAEWOO	DAEWOO
	Model		DC24	DB33	D034TI	DB58
	Output (PS)	Standby	34/28	47/39	82/65	95/80
		Prime	31/25	43/25	75/57	87/73
	Type		4-cycle, water cooled			
	No of Cylinders		I-4	I-4	I-4	I-6
	Bore×Stroke (mm)		91.9×100	102×100	102×100	102×118
	Cylinder Displacement (ℓ)		2.607	3.268	3.268	5.785
	Governor Type		Mechanical			
	Recommended Fuel Oil		ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil			
	Fuel Consumption (ℓ/hr)		8.2/6.2	9.2/7.8	15.6/12.5	18.1/15.3
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)			
	Lub. Oil Capacity (ℓ)		5.4	7.5	6.5	19
	Cooling System		Water cooled by radiator			
	Coolant Capacity (ℓ)		22.2	25	21.5	34
Starting System		Electric cell motor				
Alternator	Type		Brushless self-exciting			
	Voltage Rating		380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)			
	Frequency, Pole		60/50 Hz, 4P			
	Phase-Wire/Power Factor		3-phase 4-wire / P.F 0.8			
	Insulation/Protection Class		F (H) / IP-20			
Panel	Mounted	Control	Semi-Auto Control			
		Protection	IP-40			
		Circuit Breaker	MCCB 4P			
		Meters	Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch			
	Floor Standing	Control	Auto Control			
		Protection	IP-40			
		Circuit Breaker	MCCB 4P			
		Meters	Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor,			

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby:** power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime :** max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG 85DS	HEG 125DS	HEG 165DS	HEG 200DS	HEG 250DS	HEG 275DS	HEG 300DS
70DE	100DE	140DE	170DE	220DE	240DE	-
85/70	125/100	165/140	200/170	250/220	275/240	300/ -
75/62	105/90	145/125	175/150	220/195	240/210	270/ -
1800 /1500 rpm						
2755	2755	2959	2959	3215	3215	3215
870	870	946	946	1015	1015	1015
1460	1460	1619	1619	1559	1559	1559
1800	1900	2046	2246	2639	2639	2639
65A	100A	100A	100A	100A	100A	100A
750×830	750×830	910×1000	910×1000	995×1080	995×1080	990×1080
288.3	358.1	454.2	534.1	679.9	722.4	722.4
DAEWOO	DAEWOO	DAEWOO	DAEWOO	DAEWOO	DAEWOO	DAEWOO
D1146	D1146T	P086TI-1	P086TI	P126TI-3	P126TI	P126TI-2
143/116	200/160	270/226	303/270	375/343	450/370	465/ -
130/105	170/145	245/205	279/240	343/304	378/328	422/ -
4-cycle, water cooled						
I-6	I-6	I-6	I-6	I-6	I-6	I-6
111×139	111×139	111×139	111×139	123×155	123×155	123×155
8.071	8.071	8.071	8.071	11.051	11.051	11.051
Mechanical			Electric			
ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil						
26.6/20.8	35.1/27	47.1/39.5	56.8/48.4	76.5/66.2	76.5/66.2	82.5/ -
API CD or CF (SAE 15W/40)						
15.5	15.5	15.5	15.5	23	23	23
Water cooled by radiator						
38.5	38.5	48.5	48.5	60	60	60
Electric cell motor						
Brushless self-exciting						
380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)						
60/50 Hz, 4P						
3-phase 4-wire / P.F 0.8						
F (H) / IP-20						
Semi-Auto Control						
IP-40						
MCCB 4P						
Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch						
Auto Control						
IP-40						
ACB 4P						
Battery Voltage/Ammeter, Phase Selection Switch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button						

2. Operating Conditions

- Ambient temperature: -15°C~40°C
- Standard altitude: below 1000 m sea level
- Relative humidity: below 85%
- Installation area: indoor (temp. 5°C~40°C)

Specifications 320 kW~2000 kW (1800/1500 rpm)

GENSET		Model	HEG	HEG	HEG	HEG	HEG	HEG	
		60Hz	320DS	360DS	400DS	450DS	500DS	560DS	
		50Hz	280DE	320DE	370DE	395DE	445DE	500DE	
GENSET	OUTPUT (kW)	Standby	320/280	360/320	400/370	450/395	500/445	560/500	
		Prime	290/255	325/285	360/320	405/360	450/400	510/460	
		rpm / Hz	1800rpm / 1500rpm						
	Dimension (mm)	Length	2990	2990	2990	3170	3170	3390	
		Width	1397	1397	1397	1388	1388	1388	
		Height	1875	1875	1875	1875	1875	1875	
	Weight (kg)		2540	2650	2650	3000	3050	3800	
	Exhaust Pipe Size (mm)		150A	150A	150A	150A	150A	150A	
	Radiator Size W×H (mm)		1146×1236	1146×1236	1146×1236	1146×1236	1146×1236	1300×1250	
Ventilation Flow Rate (m ³ /min)		673.1	673.1	673.1	680.9	680.9	688.7		
Engine	Maker		DAEWOO	DAEWOO	DAEWOO	DAEWOO	DAEWOO	DAEWOO	
	Model		P158LE-2	P158LE-1	P158LE	P180LE-1	P180LE	P222LE-1	
	Output (PS)	Standby		491/437	546/492	602/563	677/601	734/674	850/752
		Prime		447/399	498/444	547/494	617/548	676/602	765/696
	Type		4-cycle, water cooled, turbocharged						
	No of Cylinders		V-8	V-8	V-8	V-10	V-10	V-12	
	Bore×Stroke (mm)		128×142	128×142	128×142	128×142	128×142	128×142	
	Cylinder Displacement (ℓ)		14.618	14.618	14.618	18.273	18.273	21.927	
	Governor Type		Electric						
	Recommended Fuel Oil		ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil						
	Fuel Consumption (ℓ/hr)		91.3/75.9	103/86.1	115.7/102.9	124.7/110	144.6/128.7	173.5/154.3	
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)						
	Lub. Oil Capacity (ℓ)		28	28	28	35	35	40	
	Cooling System		Water cooled by radiator						
Coolant Capacity (ℓ)		88	88	88	94	94	113		
Starting System		Electric cell motor							
Alternator	Type		Brushless self-exciting						
	Voltage Rating		380/220V (220/127V, 440/254V, 480/277V, 3300V, 6600V, 11000V, 13800V)						
	Frequency, Pole		60/50 Hz, 4P						
	Phase-Wire/Power Factor		3PH-4W / P.F 0.8						
	Insulation/Protection Class		F (H) / IP-20 (IP-22, IP-23)						
Panel	Mounted	Control	Semi-Auto Control					-	
		Protection	IP-40					-	
		Circuit Breaker	MCCB 4P					-	
		Meters	Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch						
	Floor Standing	Control	Auto Control						
		Protection	IP-40						
		Circuit Breaker	ACB 4P						
		Meters	Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor, Battery Voltage/Ammeter,						

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby**: power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime** : max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG
600DS	650MS	750TS	900TS	1000TS	1350TS	1500TS	1850TS	2000TS
520DE	580ME	620TE	730TE	800TE	1200TE	1320E	1600TE	1800TE
600/520	650/580	750/620	900/730	1000/800	1350/1200	1500/1320	1800/1600	2000/1800
535/480	585/523	625/570	- /655	850/730	- /1100	1350/1225	- /1470	1800/1625
1800rpm / 1500rpm								
3390	3300	3800	4200	4200	5400	5400	6430	6430
1388	1435	1580	1752	1752	2083	2413	2590	2838
1875	2125	2160	2217	2217	2955	3100	3260	3530
3800	4300	6720	7050	7300	9430	9690	12190	12890
150A	200A	250A	300A	300A	350A	350A	400A	400A
1300 × 1250	1347 × 1330	1422 × 1334	1702 × 1575	1702 × 1575	1903 × 2019	2233 × 2161	2410 × 2318	2648 × 2588
688.7	850	954	1098	1308	1675	1883	2198	2207
DAEWOO	MAN	MTU	MTU	MTU	MTU	MTU	MTU	MTU
P222LE	D2842LE203	12V2000G82/62	16V2000G42/22	16V2000G82/62	12V4000G40/20	12V4000G80/60	16V4000G40/20	16V4000G80/60
883/781	976/860	1135/924	1359/1094	1515/1216	2024/1807	2228/1990	2704/2391	2976/3027
803/723	927/798	944/849	- /978	1257/1094	- /1637	2024/1807	- /2174	2704/2750
4-cycle, water cooled, turbocharged								
V-12	V-12	V-12	V-16	V-16	V-12	V-12	V-16	V-16
128 × 142	128 × 142	130 × 150	130 × 150	130 × 150	165 × 190	165 × 190	165 × 190	165 × 190
21.927	21.93	23.88	31.84	31.84	48.7	48.7	65	65
Electric								
ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil								
173.5/154.3	160/139	180/142.4	210/164.4	238/180.7	308/272.5	346/302.8	411/359.5	462/408.7
API CD or CF (SAE 15W/40)								
40	32	82	110	110	260	260	290	290
Water cooled by radiator								
113	108	180	220	220	580	660	715	835
Electric cell motor								
Brushless self-exciting								
380/220V (220/127V, 440/254V, 480/277V, 3300V, 6600V, 11000V, 13800V)								
60/50 Hz, 4P								
3PH-4W / P.F 0.8								
F (H) / IP-20 (IP -22, IP-23)								
-								
-								
-								
-								
Auto Control								
IP-40								
ACB 4P								
Phase Selection Switch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button								

2. Operating Conditions

- **Ambient temperature:** -15°C~40°C
- **Standard altitude:** below 1000 m sea level
- **Relative humidity:** below 85%
- **Installation area:** indoor (temp. 5°C~40°C)

Specifications 280 kW~2000 kW (1800/1500 rpm)

GENSET		Model	HEG	HEG	HEG	HEG	HEG	HEG
		60Hz	280CS	300CS	350CS	400CS	450CS	500CS
		50Hz	270CE	290CE	-	330CE	400CE	460CE
GENSET	OUTPUT (kW)	Standby	280/270	300/290	350/-	400/330	450/400	500/460
		Prime	250/245	275/250	315/-	345/300	410/365	455/405
		rpm / Hz	1800rpm / 1500rpm					
	Dimension (mm)	Length	3286	3286	3304	3490	3490	3490
		Width	990	990	990	1266	1266	1266
		Height	1777	1777	1777	1906	1906	1906
	Weight (kg)		3150	3275	3390	4410	4410	4565
	Exhaust Pipe Size (mm)		150A	150A	150A	150A	150A	150A
Radiator Size W×H (mm)		920×940	920×940	920×940	1175×1143	1175×1143	1175×1143	
Ventilation Flow Rate (m ² /min)		581.8	519	521	808.3	808.8	813	
Engine	Maker		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
	Model		NT855-G6	NTA855-G2	NTA855-G3	KTA19-G2	KTA19-G3	KTA19-G4
	Output (HP)	Standby	435/415	465/430	535/-	600/495	685/600	755/675
		Prime	395/375	420/380	480/-	525/450	620/540	680/600
	Type		4-cycle, water cooled, turbocharged					
	No of Cylinders		I-6	I-6	I-6	I-6	I-6	I-6
	Bore × Stroke (mm)		140×152	140×152	140×152	159×159	159×159	159×159
	Cylinder Displacement (ℓ)		14	14	14	18.9	18.9	18.9
	Governor Type		Electric					
	Recommended Fuel Oil		ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil					
	Fuel Consumption (ℓ /hr)		82/76	89/78	96/-	113/91	122/107	133/121
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)					
	Lub. Oil Capacity (ℓ)		38.6	38.6	38.6	45	45	45
	Cooling System		Water cooled by radiator					
Coolant Capacity (ℓ)		63.9	79.8	84.8	91	91	91	
Starting System		Electric cell motor						
Alternator	Type		Brushless self-exciting					
	Voltage Rating		380/220V (220/127V, 440/254V, 480/277V, 3300V, 6600V, 11000V, 13800V)					
	Frequency, Pole		60/50 Hz, 4P					
	Phase-Wire/Power Factor		3PH-4W / P.F 0.8					
	Insulation/Protection Class		F (H) / IP-20 (IP -22, IP-23)					
Panel	Mounted	Control	Semi-Auto Control					
		Protection	IP-40					
		Circuit Breaker	MCCB 4P					
		Meters	Voltmeter, Ammeter, Frequency Meter, Phase Selection Switch, Buzzer, Engine Selection Switch					
	Floor Standing	Control	Auto Control					
		Protection	IP-40					
		Circuit Breaker	ACB 4P					
		Meters	Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor, Battery Voltage/Ammeter,					

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby:** power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime** : max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG
600CS	760CS	810CS	875CS	1000CS	1250CS	1520CS	1750CS	2000CS
565CE	640CE	700CE	780CE	890CE	1100CE	1280CE	-	-
600/565	760/640	810/700	875/780	1000/890	1250/1100	1520/1280	1750/ -	2000/ -
545/510	690/580	730/640	790/700	910/805	1090/890	1260/1080	1590/ -	1800/ -
1800rpm / 1500rpm								
4047	4297	4297	4391	4470	5290	5886	6251	6251
1423	1442	1442	1442	1506	1785	2033	2789	2789
1987	2092	2092	2092	2092	2238	2756	3175	3175
6040	7000	7150	7450	8600	10300	12100	16300	16300
200A	250A	250A	250A	250A	250A	250A	300A	300A
1347 × 1333	1378 × 1334	1378 × 1334	1378 × 1334	1378 × 1334	1900 × 1946	1900 × 1946	2600 × 2600	2600 × 2600
1157	1207	1210	1385	1608	1710	1820	2020	2041
CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
VTA28-G5	QST30-G1	QST30-G2	QST30-G3	QST30-G4	KTA50-G3	KTA50-G9	QSK60-G5	QSK60-G6
900/825	1135/940	1200/1030	1350/1200	1490/1300	1850/1645	2220/1880	2547/ -	2922/ -
815/750	1030/850	1085/935	1220/1080	1350/1180	1635/1470	1855/1585	2312/ -	2614/ -
4-cycle, water cooled, turbocharged								
V-12	V-12	V-12	V-12	V-12	V-16	V-16	V-16	V-16
140 × 152	140 × 165	140 × 165	140 × 165	140 × 165	159 × 159	159 × 159	159 × 190	159 × 190
28	30.48	30.48	30.48	30.48	50.3	50.3	60.2	60.2
Electric								
ASTM D975 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil								
173/154	207/169	219/187	228/204	267/224	318/182	375/321	402/358	466/393
API CD or CF (SAE 15W/40)								
83	132	132	132	132	177	204	296	296
Water cooled by radiator								
167	201	201	201	307	351	386	378.5	378.5
Electric cell motor								
Brushless self-exciting								
380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)								
60/50 Hz, 4P								
3PH-4W / P.F 0.8								
F (H) / IP-20 (IP -22, IP-23)								
-								
-								
-								
-								
Auto Control								
IP-40								
ACB 4P								
Phase Selection Switch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button								

2. Operating Conditions

- **Ambient temperature:** -15°C~40°C
- **Standard altitude:** below 1000 m sea level
- **Relative humidity:** below 85%
- **Installation area:** indoor (temp. 5°C~40°C)

Specifications 600 kW~3420 kW (1800/1500 rpm, 1200/1000 rpm)

GENSET		Model	HEG	HEG	HEG	HEG	HEG
		60Hz	600IS	800IS	1000IS	1250IS	1350IS
		50Hz	515IE	680IE	840IE	1130IE	1220IE
GENSET	OUTPUT (kW)	Standby	600/515	800/680	1000/840	1250/1130	1350/1220
		Prime	535/465	685/614	925/800	1100/1025	1225/1100
		rpm / Hz	1800/1500rpm				
	Dimension (mm)	Length	3790	4015	4232	4700	4935
		Width	1594	1720	1756	2225	2225
		Height	1963	2020	2453	2370	2892
	Weight (kg)		5350	6420	7850	10830	10830
	Exhaust Pipe Size (mm)		200A	200A	200A	300A	300A
	Radiator Size W × H (mm)		1330 × 1000	1520 × 1300	1530 × 1630	1740 × 1700	1740 × 2000
	Ventilation Flow Rate (m ² /min)		720	1380	1800	1800	1800
Engine	Maker		MHI	MHI	MHI	MHI	MHI
	Model		S6R-PTA	S12A2-PTA	S12H-PTA	S12R-PTA	S12R-PTA2
	Output (HP)	Standby	865/744	1146/970	1448/1314	1791/1595	1903/1723
		Prime	771/670	980/880	1314/1193	1528/1448	1729/1562
	Type		4-cycle, water cooled, turbocharged				
	No of Cylinders		I-6	V-12	V-12	V-12	V-12
	Bore × Stroke (mm)		170 × 180	150 × 160	150 × 175	170 × 180	170 × 180
	Cylinder Displacement (ℓ)		24.51	33.93	37.11	49.03	49.03
	Governor Type		Electric				
	Recommended Fuel Oil		ASTM D9775 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil				
	Fuel Consumption (ℓ /hr)		145/124	194/169	245/220	287/265	331/296
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)				
	Lub. Oil Capacity (ℓ)		94	120	200	180	180
	Cooling System		Water cooled by radiator				
	Coolant Capacity (ℓ)		113	215	244	335	305
Starting System		Electric cell motor					
Alternator	Type		Brushless self-exciting				
	Voltage Rating		380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)				
	Frequency, Pole		60/50 Hz, 4P				
	Phase-Wire/Power Factor		3PH-4W / P.F 0.8				
	Insulation/Protection Class		F (H) / IP-20 (IP -22, IP-23)				
Panel	Type		Free standing				
	Control		Auto Control				
	Protection		IP-40				
	Circuit Breaker		ACB 4P, VCB 4P				
	Meters		Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor, Battery Voltage/Ammter,				

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby:** power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime :** max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG
1500IS	1600IS	1800IS	2000IS	1280IM	1700IM	2600IM	3420IM
1320IE	1510IE	1680IE	1800IE	1200IN	1600IN	2400IN	3200IN
1500/1320	1600/1510	1800/1680	2000/1800	1280/1200	1700/1600	2600/2400	3420/3200
1375/1200	1460/1375	1635/1520	1800/1600	1224/1152	1638/1520	2448/2308	3260/2760
1800/1500rpm				1200/1000rpm			
5080	5550	5650	6000	5500	6400	6200	9700
2230	2732	2732	2432	2000	2000	2500	2600
2892	3001	3001	3456	2500	2600	3000	3400
13000	13300	13800	16000	14000	19000	25000	38000
300A	350A	350A	350A				
1740 × 2000	1740 × 2000	2410 × 2350	2050 × 2500	Remote Radiator or Heat Exchanger			
1800	1950	2040	2500	Remote Radiator or Heat Exchanger			
MHI	MHI	MHI	MHI	MHI	MHI	MHI	MHI
S12R-PTAA2	S16R-PTA	S16R-PTA2	S16R-PTAA2	S6U-PTA	S8U-PTA	S12U-PTA	S16U-PTA
2139/1882	2279/2131	2547/2359	2822/2540	1812/1688	2416/2250	3623/3375	4831/4500
1940/1712	2064/1944	2312/2145	2540/2257	1727/1627	2302/2170	3453/3256	4603/4340
4-cycle, water cooled, turbocharged							
V-12	V-16	V-16	V-16	I-6	I-8	V-12	V-16
170 × 180	170 × 180	170 × 180	170 × 180	240 × 260	240 × 260	240 × 260	240 × 260
49.03	65.37	65.37	65.37	70.6	94.1	141.2	188.2
Electric							
ASTM D9775 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil							
358/314	393/354	443/406	478/411	324/294	433/392	649/589	865/785
API CD or CF (SAE 15W/40)							
180	230	230	230	370	490	520	680
Water cooled by radiator							
350	350	445	560	270	360	520	700
Electric cell motor				Air Direct Injection			
Brushless self-exciting							
380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)							
60/50 Hz, 4P				60/50 Hz, 6P			
3PH-4W / P.F 0.8							
F (H) / IP-20 (IP -22, IP-23)							
Free standing							
Auto Control							
IP-40							
ACB 4P, VCB 4P							
Phase Selection Switch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button							

2. Operating Conditions

- **Ambient temperature:** -15°C~40°C
- **Standard altitude:** below 1000 m sea level
- **Relative humidity:** below 85%
- **Installation area:** indoor (temp. 5°C~40°C)

Specifications 1250~5320 kW (1800/1500 rpm, 900/750 rpm, 720 rpm)

GENSET		Model	HEG	HEG	HEG	HEG
		60Hz	1250AS	1500AS	1750AS	2000AS
		50Hz	1120AE	1320AE	1600AE	1760AE
GENSET	OUTPUT (kW)	Standby	1250/1120	1500/1320	1750/1600	2000/1760
		Prime	1135/1020	1360/1200	1600/1460	1825/1600
		rpm / Hz	1800/1500 rpm			
	Dimension (mm)	Length	5185	5737	5813	6280
		Width	2092	2319	2319	2319
		Height	2361	2545	2545	2545
	Weight (kg)		10815	12850	13235	14700
	Exhaust Pipe Size (mm)		300A	350A	400A	400A
	Radiator Size W × H (mm)		1800 × 1600	2000 × 2000	2000 × 2000	2000 × 2000
Ventilation Flow Rate (m ² /min)		2012	2341	2295	2341	
Engine	Maker		CAT	CAT	CAT	CAT
	Model		3512TA/GSE	3512BTA/GSE	3516TA/GSE	3516BTA/GSE
	Output (BHP)	Standby	1818/1604	2172/1924	2520/2305	2876/3164
		Prime	1662/1458	1971/1749	2304/2095	2628/2293
	Type		4-cycle, water cooled, turbocharged			
	No of Cylinders		V-12	V-12	V-16	V-16
	Bore × Stroke (mm)		170 × 190	170 × 190	170 × 190	170 × 190
	Cylinder Displacement (ℓ)		51.8	51.8	69	69
	Governor Type		Electric			
	Recommended Fuel Oil		ASTM D9775 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil			
	Fuel Consumption (ℓ/hr)		333/292	393/332	442/427	500/469
	Recommended Lub. Oil		API CD or CF (SAE 15W/40)			
	Lub. Oil Capacity (ℓ)		333	333	416	416
	Cooling System		Water cooling type by radiator			
	Coolant Capacity (ℓ)		333	382	458	458
Starting System		Electric cell motor				
Alternator	Type		Brushless self-exciting			
	Voltage Rating		380/220V (220/127V, 440/254V, 480/277V, 3300V, 6600V, 11000V, 13800V)			
	Frequency/Pole		60/50 Hz, 4P			
	Phase-Wire/Power Factor		3PH-4W / P.F 0.8			
	Insulation/Protection Class		F (H) / IP-20 (IP -22, IP-23)			
Panel	Type		Free standing			
	Control		Auto Control			
	Protection		IP-40			
	Circuit Breaker		ACB 4P, VCB 4P			
	Meters		Wattmeter, Voltmeter, Ammeter, Frequency, Power Factor,			

NOTE) 1. A genset model is based on standby output rating of alternator.

- **Standby:** power rating at below average 90% load for 1 hour in any 1-hour period.
No application with overload (DIN6270B)
- **Prime** : max. power rating at variable load for unlimited periods with overload available for 1 hour in any 12-hour period. (DIN6270B)

HEG	HEG	HEG	HEG	HEG	HEG	HEG	HEG
2000AM	2660AM	4000AM	5320AM	1680AM	2220AM	3360AM	4440AM
1725AN	2285AN	3460AN	4580AN	-	-	-	-
2000/1725	2660/2285	4000/3460	5320/4580	1680	2220	3360	4440
1770/1570	2400/2080	3610/3140	4800/4160	1500	2000	3050	4040
900/750rpm				720rpm			
9100	9100	9100	10600	9100	9100	9100	10600
3900	3950	4100	4300	3900	3950	4100	4300
2000	2000	2000	2000	2000	2000	2000	2000
37980	46500	56500	68500	37980	46500	56500	68500
450A	450A	600A	650A	450A	450A	600A	650A
Remote Radiator or Heat Exchanger							
Remote Radiator or Heat Exchanger							
CAT	CAT	CAT	CAT	CAT	CAT	CAT	CAT
3606	3608	3612	3616	3606	3608	3612	3616
2803	3731	5606	7462	2356	3114	4713	6227
2548	3395	5096	6789	2139	2833	4278	5666
4-cycle, water cooled, turbocharged							
I-6	I-8	V-12	V-16	I-6	I-8	V-12	V-16
280 × 300	280 × 300	280 × 300	280 × 300	280 × 300	280 × 300	280 × 300	280 × 300
111	148	222	296	111	148	222	296
Electric							
ASTM D9775 No1D/2D or KS M 2610 No. 2 Diesel Fuel Oil							
495/427	647/556	998/863	1294/1114	398	530	796.7	1059
API CD or CF (SAE 15W/40)							
846	1078	1268	1649	846	1078	1268	1649
Water cooling type by radiator				Water cooling type by remote radiator or by heat exchanger			
900	1030	1400	1660	900	1030	1400	1660
Electric cell motor							
Brushless self-exciting							
380/220V (220/127V,440/254V,480/277V,3300V,6600V,11000V,13800V)							
60/50 Hz, 8P				60/50 Hz, 10P			
3PH-4W / P.F 0.8							
F (H) / IP-20 (IP -22, IP-23)							
Free standing							
Auto Control							
IP-40							
ACB 4P, VCB 4P							
Battery Voltage/Ammter, Phase SelectionSwitch, Engine Operating Switch, CB Selection Switch, Voltage Adjusting Switch, EOVR, EOVR, EUVR, Buzzer, Lamp, Push-button							

2. Operating Conditions

- **Ambient temperature:** -15°C~40°C
- **Standard altitude:** below 1000 m sea level
- **Relative humidity:** below 85%
- **Installation area:** indoor (temp. 5°C~40°C)