NEW THINKING, NEW POSSIBILITIES.

People's expectation toward individual mobility requires more than just a convenient means of transportation. The old understanding of cars has become outdated. A car represents individuals' lifestyles, and it became an integral part of their lives. At the same time, the automobile industry has experienced seismic change. Hyundai Motor Company has grown rapidly to become one of the largest automakers, backed by world class production capability and superior quality. We have now reached a point where we need a qualitative approach to bring bigger ideas and relevant solutions to our customers. This is an opportunity to move forward and we have developed a new brand slogan that encapsulates our willingness to take a big leap. Led by our new slogan and the new thinking underlying it, we will become a company that keeps challenging itself to unlock new possibilities for people and the planet.

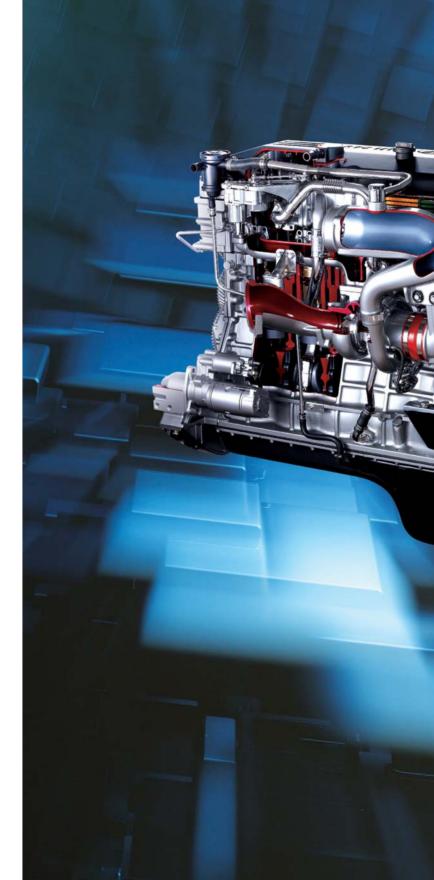


Hyundai Motor Company 12,Heolleung-ro, Seochogu, Seoul, Korea 06797, Special Vehicle Team Tel : 82–2–3464–3321~3324 I Fax : 82–2–3464–3502

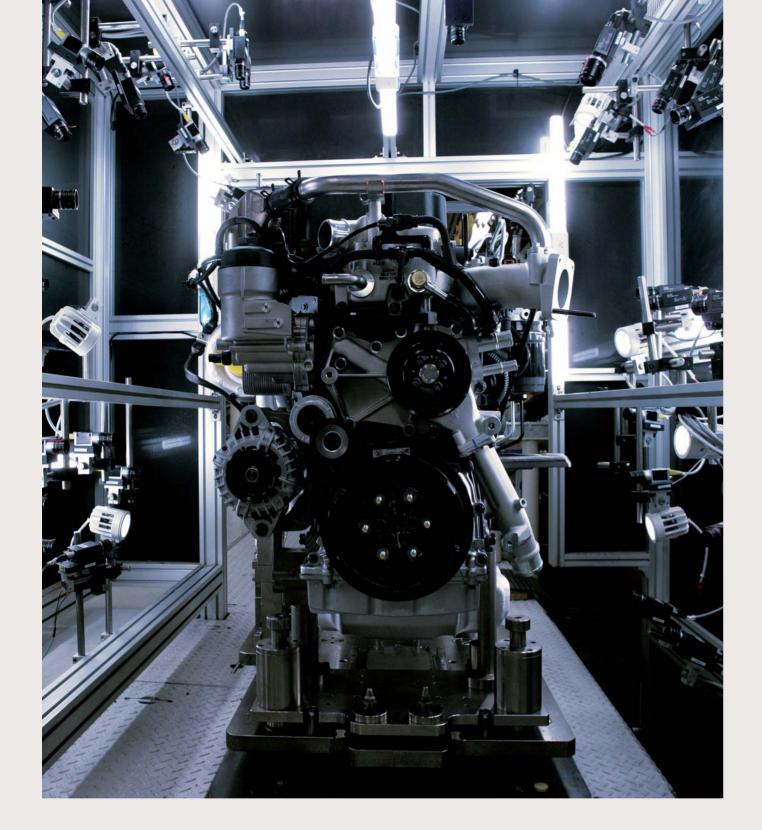
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HYUNDAI ENGINE







The Strengths of HMC Industrial Engines

When it comes to the strengths of HMC's industrial engines, one can easily list the following three points. HMC has accomplished economies of scale with manufacturing capacity of over 5 million units per year. This allows stable supply of engines at competitive prices. HMC engines are of the best quality and performance. Behind the positive ratings of Hyundai Motors by JD Power,

AutoPacific and many other automotive rating organizations lie the high-quality engines.

The strength of HMC engine is the diverse engine line-up ranging from gasoline engines (53~375hp), diesel engines (40~530 hp), to CNG engines that can easily meet our clients' various needs. In addition, HMC's engines are also eco-friendly and conform to all the international standards that are getting tougher and tougher.

HYUNDAI ENGINE IS YOUR PARTER TO SUCCESS



The Ulsan Plant-the world's single largest automobile plant in the world

The mammoth-sized Ulsan complex sits on a 1,200 acres site and it is Hyundai's main production plant comprised of five independent plants capable of producing 1,392,000 vehicles per year. This plant has over 35,000 employees and its annual average production capacity is 1,392,000 vehicles. The plant also has its own port where up to three 50,000 ton ships can anchor at the same time. Being the world's largest in scale of its kind, the Ulsan plant is the birth place of the Korean automobile industry and is a self-contained facility that operates its own fire station, hospital and security vehicles. The Ulsan Plant is also equipped with cutting-edge facilities to protect the environment, such as a waste water and sewage treatment plant securing Hyundai's position as a green-minded company.



World's largest scale commercial vehicle production plant-Jeonju Plant

The Jeonju Plant occupies a total of 400,000 pyong (317 acres) of landand has 4.3 million sq. ft. in production space. It specializes in producing mid to large-sized buses, trucks and specialty vehicles.

The Jeonju Plant is capable of producing 100,000 vehicles per year and interms of the plant's scale, it is deemed to be the world's largest commercial vehicle production plant.

In order to facilitate the development of eco-friendly new products that can satisfy the demands of the international export markets in the 21st century and the development of environmentally-conscious management systems, the Jeonju Plant is making an all-out effort.



A Facility of the Future Focusing on export strategy-Asan Plant

The Asan Plant, which mainly produces passenger vehicles for export, rests on a 440 acres site with a 4 million sq. ft. building that consists of production lines for machine press, auto frame, paint, assembly, engine and a materials plant. It is an entirely self contained independent automobile production complex that is capable of an output of 300,000 mid to large size passenger vehicles annually.

The Asan plant was established with the grand proposition of creating a safety-first work environment which is people oriented all the while putting into practice our management philosophy of eco-friendliness.

Generator Engine

발전기<mark>용 엔</mark>진



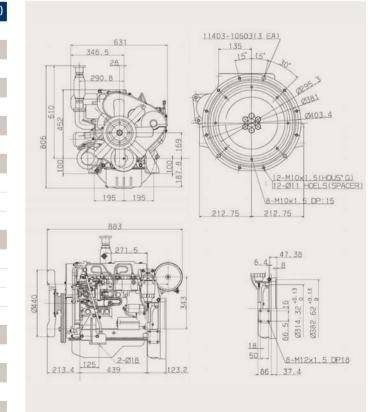


Specifications

	Engine model		D4BB-G1(AG31) D4BB-G2(AG39		
	Engine type		4 Cycle, water cooled		
	Injection type		Indirect i	injection	
ľ	No. of cyl. And	configuration	4-in	line	
	Aspiration		n.	A	
j	Displacement (o	cc)	2,6	607	
	Bore × stroke (mm)	91.1 >	< 100	
j	Compression ra	itio	22	:]	
	Dry weight (kg)	1	21	10	
1	Dimension	Length (mm)	883		
		Width (mm)	631		
		Height (mm)	806		
	rpm		1,800	1,800	
	Stand-bu nowor	PS	28	45	
	Stand-by power	kW	21	33	
	Prime power	PS	25	41	
	Prime power	kW	19	30	
	Governor		-	-	
	Flywheel		SAE #10		
	Flywheel housing		SAE #4		
1	Alternator		12V - 65A		
	Starting motor		12V - 2.2kW		
1					

Generator Engine

General View of Engine

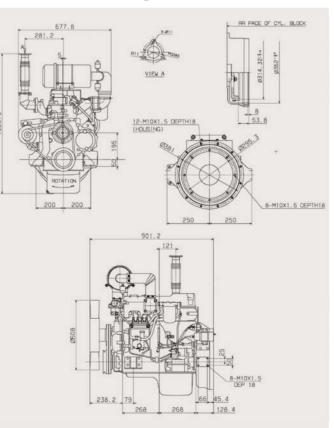




Specifications

Engine model		D4AF-G(EM68)			
Engine type		4 Cycle, water cooled			
Injection type		Direct injection			
No. of cyl. And	configuration	4-in	line		
Aspiration		Π.	A		
Displacement (c	c)	3,5	68		
Bore × stroke (mm)	104 ×	105		
Compression ra	tio	17.5	:1		
Dry weight (kg)		32	.4		
	Length (mm)	90)]		
Dimension	Width (mm)	678			
	Height (mm)	1,021			
rpm		1,500	1,800		
Stand-by power	PS	50	60		
Stand by power	kW	37	44		
Prime power	PS	45	54		
Frime power	kW	33	40		
Governor	Governor		SV type		
Flywheel		SAE #10			
Flywheel housir	Flywheel housing		SAE #4		
Alternator		24V - 50A			
Starting motor		24V – 5.0kW			

General View of Engine



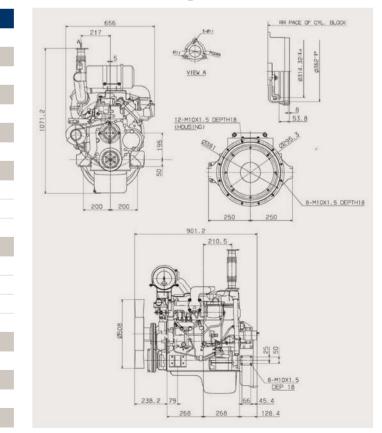




Specifications

Engine model		D4AK-G(EM69)		
Engine type		4 Cycle, water cooled		
Injection type		Direct injection		
No. of cyl. And	configuration	4-in	line	
Aspiration		T.(-	
Displacement (o	c)	3,29	98	
Bore × stroke (mm)	100 ×	105	
Compression ra	tio	16 :	1	
Dry weight (kg)		33	4	
	Length (mm)	901		
Dimension	Width (mm)	656		
	Height (mm)	1,071		
rpm		1,500	1,800	
Stand-by power	PS	60	82	
Staria-ng hower	kW	44	60	
Prime power	PS	54	74	
Prime power	kW	40	54	
Governor		Bosch RSV type		
Flywheel		SAE #10		
Flywheel housing		SAE #4		
Alternator		24V - 50A		
Starting motor		24V - 5.0kW		

General View of Engine



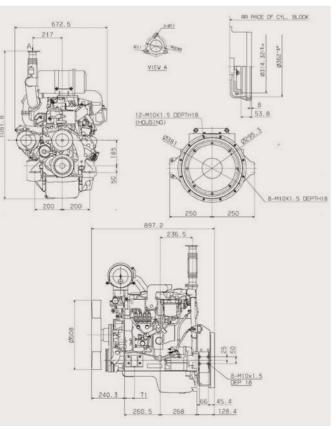
HYUNDAI ENGINE _ **21**

Generator Engine

Specifications

Engine model		D4DA-G(EM2D)		
Engine type		4 Cycle, water cooled		
Injection type		Direct ir	njection	
No. of cyl. And	configuration	4-in	line	
Aspiration		T.	C	
Displacement (c	c)	3,9	07	
Bore × stroke (i	mm)	104 >	< 115	
Compression ra	tio	16.5	5:1	
Dry weight (kg)		36	50	
	Length (mm)	89	97	
Dimension	Width (mm)	673		
	Height (mm)	1,082		
rpm		1,500	1,800	
Stand-by power	PS	85	107	
Stand by power	kW	62	79	
Prime power	PS	75	95	
Frime power	kW	55	70	
Governor	Governor		tric	
Flywheel		SAE #10		
Flywheel housing		SAE #4		
Alternator		24V - 40A		
Starting motor		24V - 5.0kW		

General View of Engine



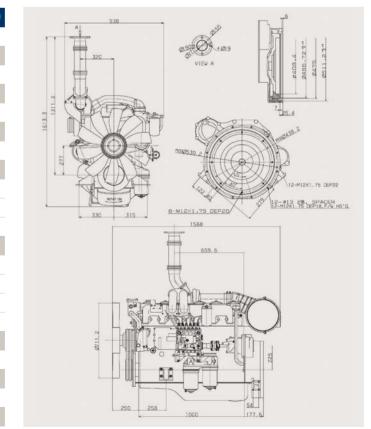


Specifications

Engine model	D6AZ-0	D6AZ-G1(EH1X) D6AZ-G2(EH2X					
Engine type	Engine type			4 Cycle, water cooled			
Injection type			Direct injection				
No. of cyl. And	configuration		6-in	line			
Aspiration			T.	.C			
Displacement (c)		11,	149			
Bore × stroke (mm)		130 >	< 140			
Compression ra	itio		16.5	5:1			
Dry weight (kg)	1		1,0)10			
	Length (mm)		1,5	88			
Dimension	Width (mm)	938					
	Height (mm)		1,613				
rpm		1,500	1,800	1,500	1,800		
Stand-by power	PS	270	309	235	260		
Stalla-ng hower	kW	199	227	173	191		
Prime power	PS	243	278	212	234		
Prime power	kW	179	204	156	172		
Governor	Governor		Electric Bosch RSV type				
Flywheel		SAE #14					
Flywheel housing		SAE #1					
Alternator		24V - 70A					
Starting motor			24V – 5.5Kw				



General View of Engine

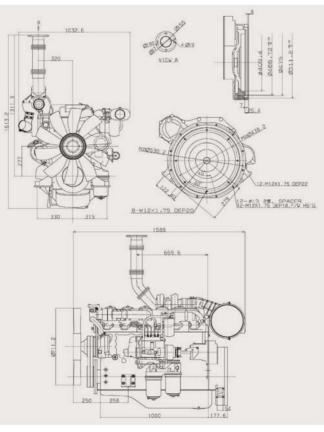




Specifications

Engine model		D6AC-G(BB17)			
Engine type		4 Cycle, water cooled			
Injection type		Direct injection			
No. of cyl. And	configuration	6-in	line		
Aspiration		Т.(. .I		
Displacement (o	c)	11,1	49		
Bore × stroke (mm)	130 ×	: 140		
Compression ra	tio	16.5	;:1		
Dry weight (kg)		1,0	50		
	Length (mm)	1,588			
Dimension	Width (mm)	1,033			
	Height (mm)	1,613			
rpm		1,500	1,800		
Stand-by power	PS	320	350		
Stand-nd hower	kW	235	257		
	PS	288	315		
Prime power	kW	219	232		
Governor	Governor		Electric		
Flywheel		SAE #14			
Flywheel housir	Flywheel housing		SAE #1		
Alternator		24V - 70A			
Starting motor		24V - 5.5kW			

General View of Engine



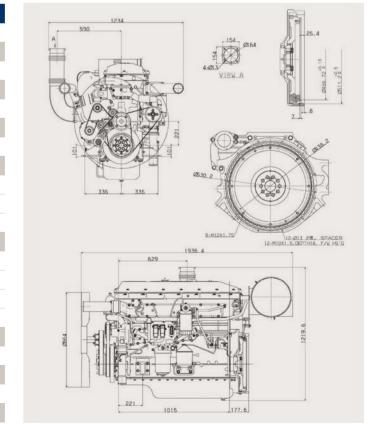
D6CC-G1,G2 350kWe, 300kWe Grade



Specifications

Engine model	D6CC-G1(EH9G) D6CC-G2(EH7G)						
Engine type	Engine type			4 Cycle, water cooled			
Injection type			Direct injection				
No. of cyl. And	configuration		6-in	line			
Aspiration			T.	C.I			
Displacement (o	c)		12,	344			
Bore × stroke (mm)		130 >	× 155			
Compression ra	itio		17.2	2:1			
Dry weight (kg)			1,2	210			
	Length (mm)		1,9	936			
Dimension	Width (mm)		1,234				
	Height (mm)		1,219				
rpm		1,500	1,800	1,500	1,800		
Stand-by power	PS	450	530	400	460		
Stalia by power	kW	331	390	294	338		
Prime power	PS	405	477	400	460		
Prime power	kW	298	351	294	338		
Governor	Governor		ECU				
Flywheel	Flywheel		SAE #14				
Flywheel housing		SAE #1					
Alternator	Alternator			24V - 80A			
Starting motor		24V - 6.0kW					

General View of Engine



Generator Engine

Engine model	D4BB-G1	D4BB-G2	D4BB-G4	D4BB-G5	D4AF-G	D4AK-G	D4DA-G
Engine code	AG31	AG39	AG41	AG49	EM68	EM69	EM2D

General

Fuel		Diesel		Diesel			
Injection type		Indirect injection		Direct injection			
No. of cyl. And co	onfiguration	4-in line		4-in line			
Aspiration		N.A	T.C	П.А	T.C	T.C	
Displacement (cc)		2,607		3,568	3,298	3,907	
Bore x Stroke (mm)		91.1 × 100		104 × 105	100 x 105	104 x 115	
Compression ratio)	22 : 1		17.5 : 1	16 : 1	16.5 : 1	
Dry weight (kg)		210	215	324	334	360	
	Length	883	800	901	901	897	
Dimension (mm)	Width	631	604	678	656	673	
	Height	806	844	1,021	1,071	1,082	

Performance

грт		1,800	1,800	1,500	1,800	1,500	1,800	1,500	1,800	1,500	1,800
Stand-by power	PS	28	45	26	53	50	60	60	82	85	107
	kW	21	33	19	39	37	44	44	60	62	79
Prime power	PS	26	41	23	48	45	54	54	74	75	95
i time power	kW	19	30	17	35	33	40	40	54	55	70

Lubrication system

Oil capacity (ℓ)	5.4	8.5
Oil filter	Paper element(cartridge) type	Paper element(cartridge) type

Fuel system

Governor	-	Paper element type	
Fuel injection pump	Bosch VE type	Bosch PES4A type	
Fuel filter	Paper element type	Paper element type	

Standard equipment

Flywheel	SAE #10	SAE #10		
Flywheel housing	SAE #4 SAE #4			
Air cleaner	Cyclone filter paper type	Cyclone filter paper typ	0e	
Alternator	12V - 65A	24V - 50A	24V - 40A	
Starting motor	12V – 2.2kW	24V - 5.0kW	24V - 5.0kW	

Technical data

Heat rejection (kcal/h)	13,598	22,450	11,903	24,012	23,700	30,400	49,700
Intake air flow rate (m³/min)	1.9 1.9 1.6 3.5		2.9	3.6	5.0		
Exhaust gas flow rate (m³/min)	5.4	5.4	4.5	5.4	8.5	10.5	16.0
Cooling water capacity (()	3.9				8.3	8.3	8.3
грт	1,800 1,800 1,500 1,800		1,800	1,800	1,800		
Fuel consumption (g/ps.h)	185.0	190.0	174.4	172.6	166.5	157.4	154.0

Application	Generator	Pump	Generator
			·

 \ast Power is only for engine without cooling fan.

Engine model	D6AZ-G1	D6AZ-G2	D6AC-G	D6CC-G1	D6CC-G2
Engine code	EH1X	EH2X	BB17	EH9G	EH7G

General

Fuel		Diesel	Diesel				
Injection type		Direct injection	Direct injection				
No. of cyl. And co	nfiguration	6-in line		6-in line			
Aspiration		T.C	T.C.I	T.C.I			
Displacement (cc)		11,149	12,344				
Bore x Stroke (mr	n)	130 × 140	130 x 155				
Compression ratio)	16.5 : 1	17.2 : 1				
Dry weight (kg)		1,010	1,050	1,210			
	Length	1,588	1,588	1,936			
Dimension (mm)	Width	938	1,033	1,234			
	Height	1,613	1,613	1,219			

Performance

rpm		1,500	1,800	1,500	1,800	1,500	1,800	1,500	1,800	1,500	1,800
Stand-by power	PS	270	309	235	260	320	350	450	530	400	460
Stand by power	kW	199	227	173	191	235	257	331	390	294	338
Prime power	PS	243	278	212	234	288	315	405	477	400	460
T TIME POWER	kW	179	204	156	172	219	232	298	351	294	338

Lubrication system

Oil capacity (ℓ)	24.0	28.0
Oil filter	Paper element type with by-pass filter	Paper element type with by-pass filter

Fuel system

Governor	Electric	Bosch RSV type	Electric	ECU
Fuel injection pump	Bosch PE6A type	Bosch PE6AD type	Electric unit injector	
Fuel filter		Paper element type	Paper element type	

Standard equipment

Flywheel	SAE #14	SAE #14
Flywheel housing	SAE #1	SAE #1
Air cleaner	Cyclone filter paper type	Cyclone filter paper type
Alternator	24V - 70A	24V - 80A
Starting motor	24V - 5.5kW	24V - 6.0kW

Technical data

Heat rejection (kcal/h)	99,000	99,000 90,000		240,000	210,000
Intake air flow rate (m³/min)	14.0	14.0	17.2	29.5	24.2
Exhaust gas flow rate (m³/min)	41.5	38.4	50.4	62.5	52.1
Cooling water capacity (l)		24.0		42.0	42.0
rpm	1,800	1,800	1,800	1,800	1,800
Fuel consumption (g/ps.h)	162.5	154.0	152.6	149.0	148.0

Application								Genera	ator	
							-			

* Power is only for engine without cooling fan.

or Generator		
	IF	