



주식회사 다센 
DASSEN DASSEN CO.,LTD.

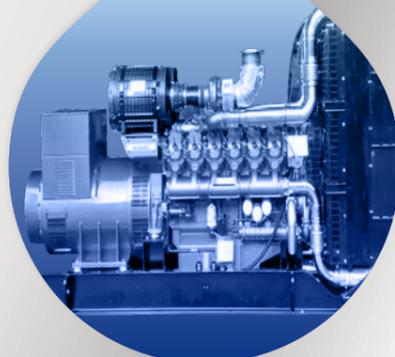
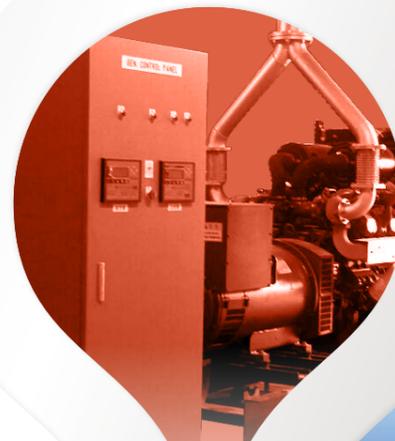
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미래산업을 이끌어가는 선두기업. **다센**
 The leading company in the future industry



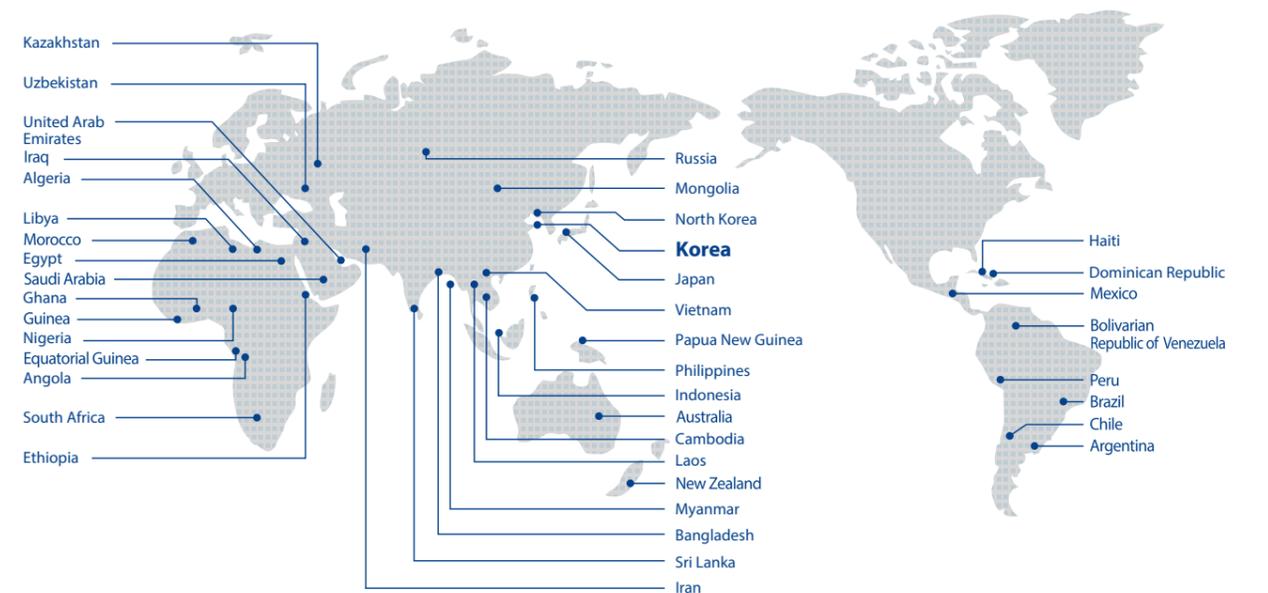
Version No.4



발전기제작 전문 
DASSEN

With the excellent technology for the best quality and globalization

The leading company in the future industry



당사가 납품한 세계 수출국입니다.

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- 북한
- 기니
- 적도기니
- 브라질
- 이라크

The quality, the economy and our DASEN's way



Stand-by power 비상전원

It will show the best utility in surgical operation rooms, cinema houses, communication facilities, elevators of buildings, on-line system in banks, industrial fields where sudden power-out may come into paralysis of its function.

갑작스런 정전으로 인해 마비가 일어날 수 있는 병원의 수술실, 영화관, 통신시설, 빌딩의 엘리베이터, 은행의 온라인 시스템, 산업현장 등에서 그 기능을 유감없이 발휘할 것입니다.



Continuous power 상용전원

It promises economical saving when it is used in production plants requiring to keep normal operation, tourist shops using none of electricity for industry and as an assistance role for the normal operation of every machine.

항상 정상가동이 필요한 피크타임의 생산공장, 상업용 전력을 사용하지 않는 관광업소 및 각종 기계의 정상가동을 위한 보조역할로써 경제적으로 큰 몫을 담당하고 있습니다.



Assistance electric power 보조전원

It is used as a power source in mines, construction fields, engineering works, outdoor performance and used for vessels and lightings.

산업발전에 필요한 광산, 건설현장, 토목, 야외공연장이나, 선박용, 조명용 전원 및 제조업체의 동력원으로 긴요하게 사용되고 있습니다.

Mounted Control Panel Standard Generator Set Features

탑재형 운전반

탑재형 운전반(반자동형)/표준형



탑재형 운전반(반자동형)/선택사항



Main Functions(주요기능)

- 수동/자동/원격 운전
- LED, LCD를 이용한 제품 상태 감시
 - : 대용량 LCD 적용(2라인, 20문자)
- 경고레벨 : 경고장, 중고장 구분(LCD에 표시)
- 키조작 : 멤브레인 스위치 적용
- 절전기능 : 백라이트 자동 소등
- 노이즈 차폐 : 판넬 전면부 적용
- Modbus 프로토콜을 이용한 PC 원격제어
- 손쉬운 결선(Point to Point)
- 무전압 접점(총 16개, 확장모듈, 옵션)

Display(디스플레이)

- 주파수(Hz), 엔진속도(rpm)
- 3상 상전압/선간전압(Vac), 3상 전류(A)
- 전력(kW), 적산전력(kWh), 역률(PF.)
- 운전시간(Hrs), 오일압력(bar)
- 냉각수 온도(°C), 배터리 전압(Vdc)

Control Functions(제어기능)

- 시동실패 · 기동횟수, 기동시간 조절
- 비상정지 · 예열/후열시간 조정
- 주차단기 제어 · LED/LCD 점검
- 정전/복전 감지시간 조정

LED Indicator(LED 표시기)

- 고장/비상정지/수동운전/자동운전/원격운전/운전중/주차단기 투입/주차단기 차단

Standard Protective Functions & Alarm Indicators

Indicators	Type	Engine stop	Breaker trip	Indication lamp	Setting value	Remarks
Low lubrication oil pressure		○	○	○	0.6kg/cm ²	
Over temperature of cooling water		○	○	○	95 °C or higher, 103 °C or higher	
Over speed		○	○	○	120% or faster of the rated speed	
Start-up fail		○	○	○	Repeat start-up 3 times in automatic start-up	Semi-automatic
Over voltage		○	○	○	110% or higher	
Low voltage		○	○	○	90% or lower	
Over current		○	○	○	120% or lower	

Mounted Control Panel



Digital Type(GCP 20)



Digital Type(GCP i7)



Fire Feeder Digital Type(GCP i7 + fFD)

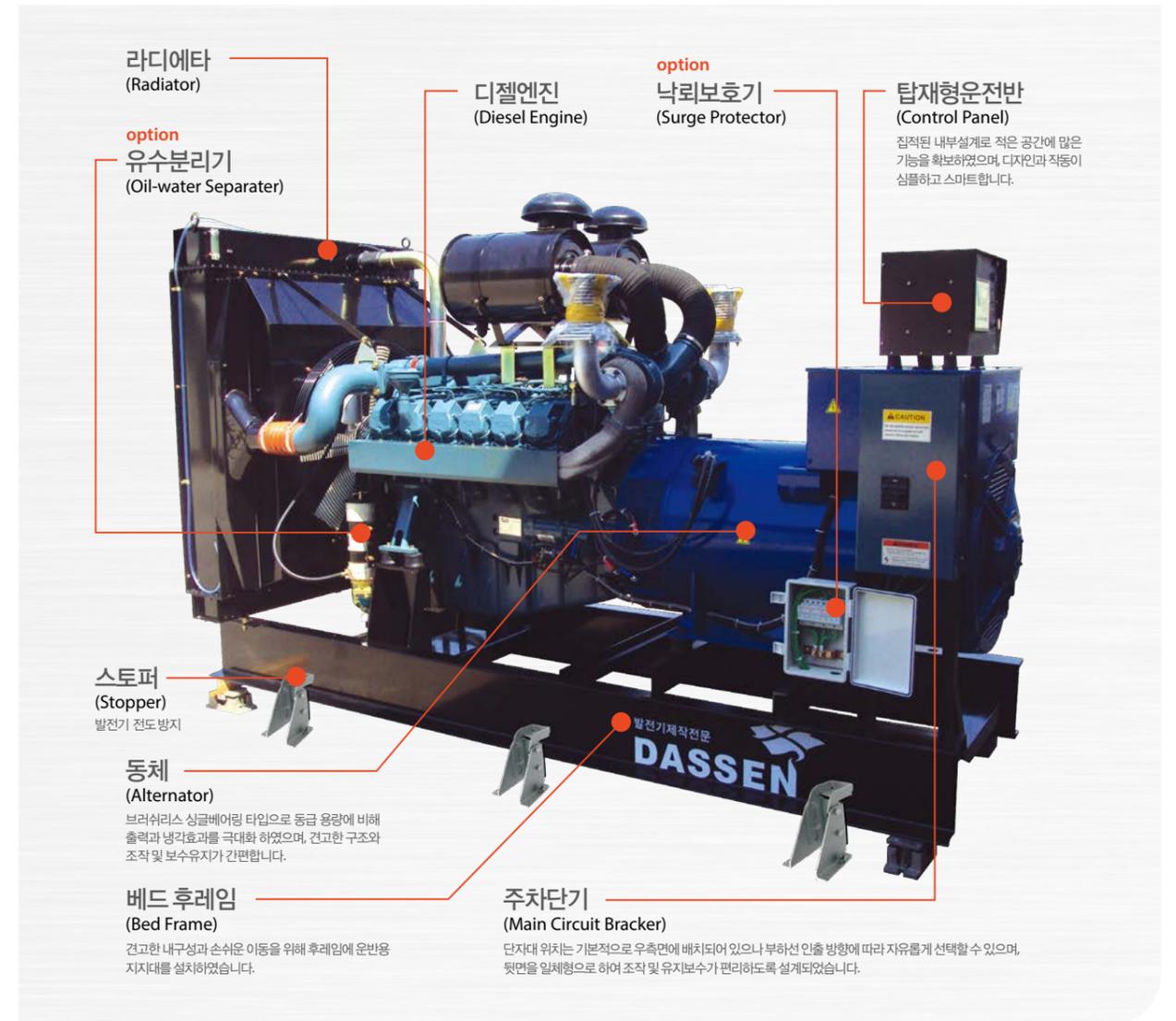
Remote Control System

- Manual/Automatic/Remote Control
- Monitoring products by using LED, LCD
 - : Applying Mass Capacity LCD(2 lines, 20 letters)
- Warning Level: Light-breakdown, heavy-breakdown(indicated in LCD)
- Key control: Applying membrane switch
- Power-saving Function: Automatic back-lights out
- Noise order: Applied to the front part of panel
- Remote Control of PC by using Modbus protocol
- Easy connection of lines(Point to Point)
- No-voltage contact point(total 16 points, extended module, option)

- Frequency(Hz), Engine Speed(rpm)
- 3-phase voltage/line voltage(Vac), 3-phase current(A)
- Electric power(kW), watt-hour(kWh), power factor(P.F.)
- Operation time(Hrs), oil pressure(bar)
- Temperature of cooling water(°C), battery voltage(Vdc)

- Startup fail
- Emergency shutdown
- Main circuit breaker control
- Adjustment of power-outage/short circuit sensing time
- Operating times and hours control
- Adjustment of pre-heating/post-heating time
- LED/LCD inspection

- Breakdown/Emergency shutdown/Manual Operation / Automatic Operation/Remote Operation/On operation / Main Circuit Breaker input/Main Circuit Breaker cut



Product of Verified Reliability (신뢰성이 입증된 제품)

Key Parts of Diesel Generator

We, DASSEN supplies a reliable products after performing various test for the built-in control panels, by national test Authorities.

국가공인 시험기관에서 탑재형 운전반의 각종 시험을 거쳐 소비자가 믿을 수 있는 제품을 공급하여 드립니다.

Vibration(진동)	1.2G or less
Vibration resistance(내진동)	25Hz, X-Y-Z direction
Temperature for storage(보관온도)	-40~85°C
Operating temperature(사용온도)	-20~85°C
Relative humidity(상대습도)	95% or less
Surge Test(서지 시험)	110V, 400ms
Burst noise test(버스트 노이즈 시험)	IEC-1000-4-4-LEVEL3±2000V
Static electricity test(정전기 시험)	IEC-1000-4-2-LEVEL3 aerial discharge ±800V direct · indirect±6000V

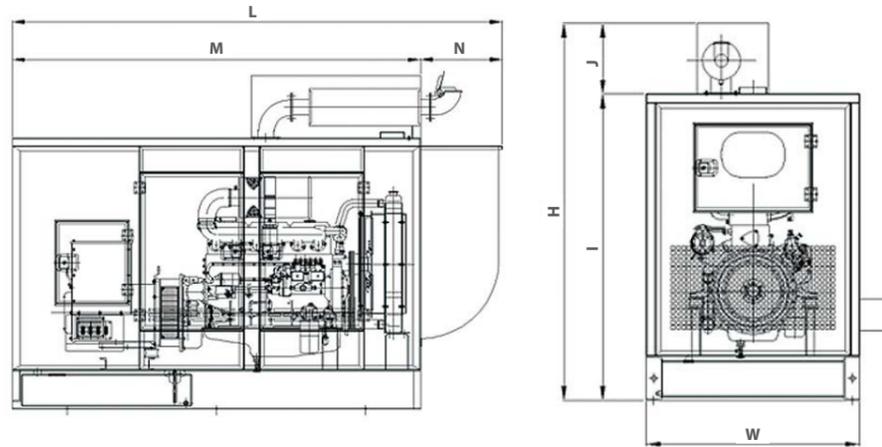
Sound Proof

DOOSAN ENGINE Generator SET

방음형 발전기 세트

Standard Features

- 소음 : 85dB(A) 이하(7m 기준)
- 흡음재 : 난연성 재질(T : 45mm)
- 내환경 외관도장
- 오일, 냉각수, 연료 드레인밸브(외부위치)
- 운전 감시용 안전유리
- 부하선 취부 용이
- 잠금 장치형 도어
- 연료 주입 용이

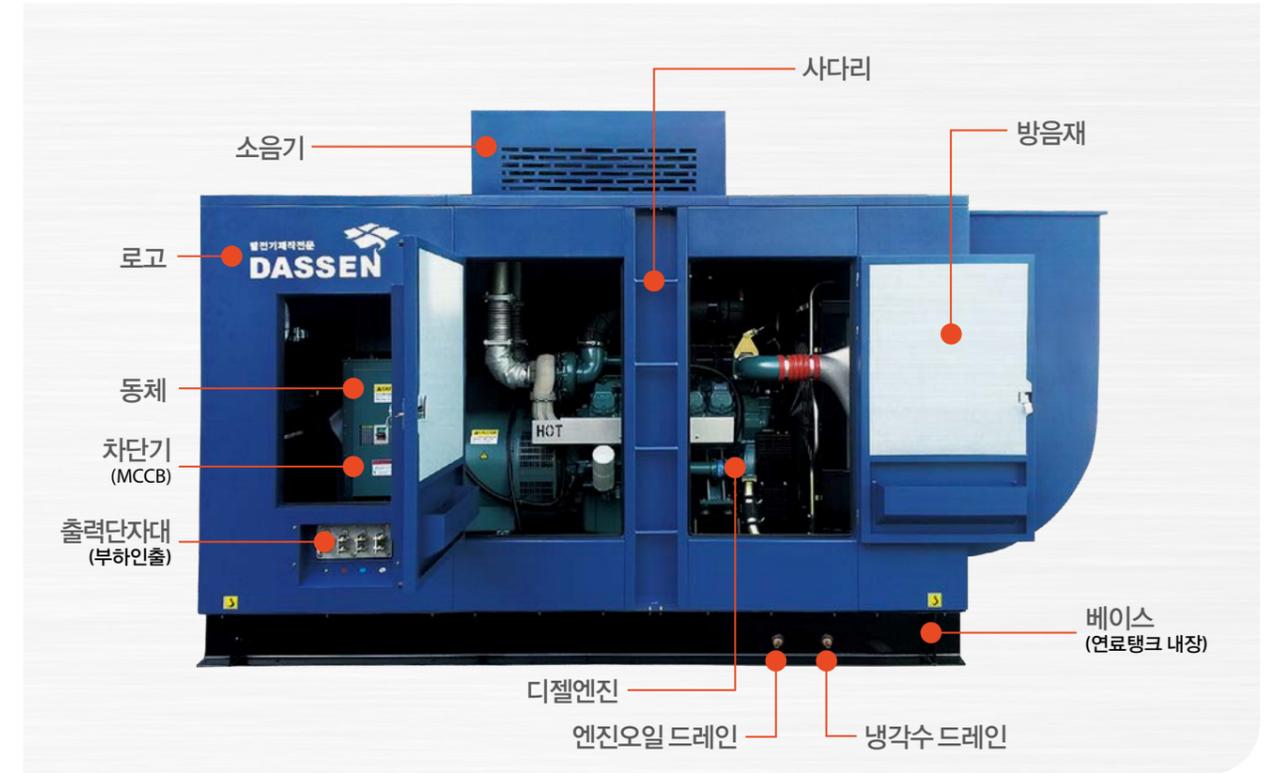


Dimension

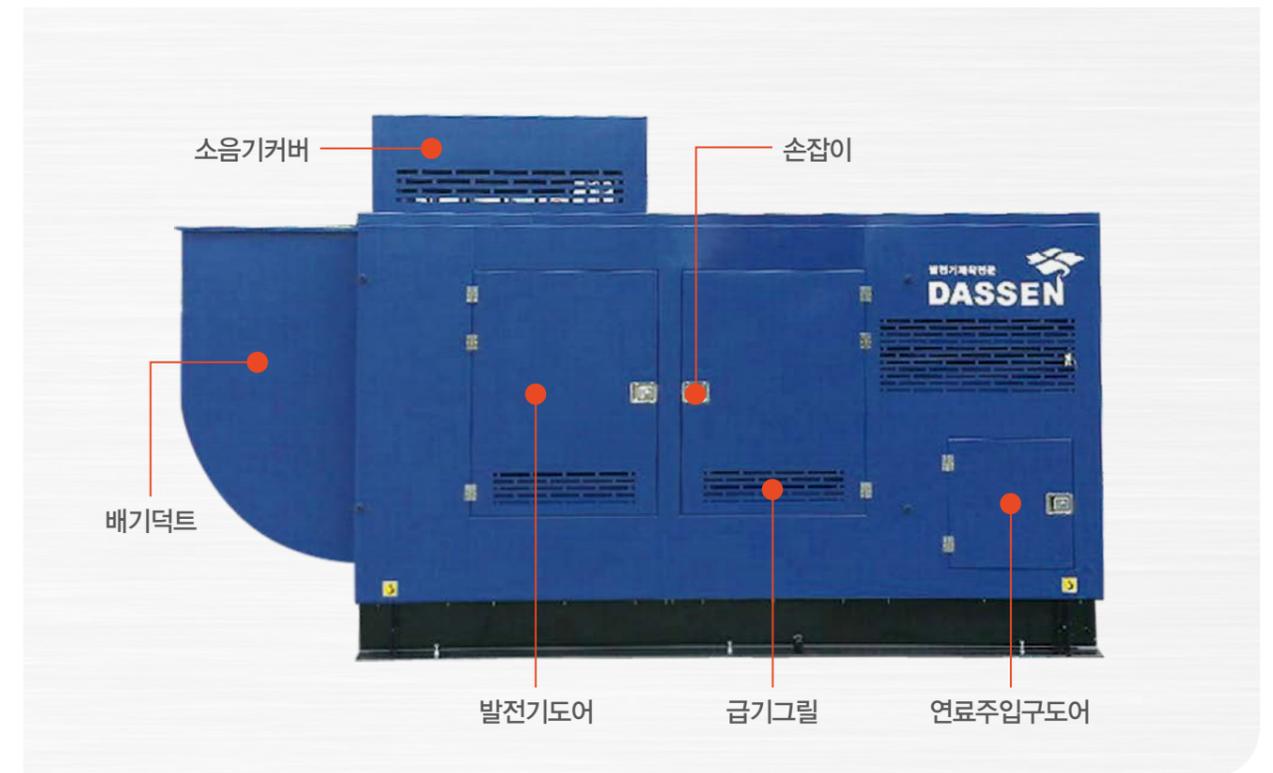
MODEL	ENGINE	L	M	N	W	H	I	J	Weight(kg)
D90	D1146	3120	2600	520	1200	2210	1780	430	2100
D130	D1146T	3120	2600	520	1200	2260	1780	480	2200
D175	DE12T	3420	2900	520	1300	2200	1720	480	2690
D200	P086TI	3420	2900	520	1300	2350	1850	480	2800
D230	DP086LA	3420	2900	520	1300	2350	1850	480	2900
D250	P126TI-3	4120	3300	820	1400	2380	1900	480	3160
D275	P126TI	4120	3300	820	1400	2380	1900	480	3230
D300	P126TI-II	4120	3300	820	1400	2380	1900	480	3300
D330	DP126LA	4120	3300	820	1400	2480	2000	480	3400
D360	DP126LB	4120	3300	820	1400	2480	2000	480	3500
D400	P158LE	4120	3300	820	1704	2480	2000	480	3640
D450	DP158LC	4170	3350	820	1704	2560	2080	480	3700
D500	DP158LD	4170	3350	820	1704	2560	2080	480	3720
D550	DP180LA	4420	3600	820	1800	2650	2170	480	5100
D610	DP180LB	4420	3600	820	1800	2650	2170	480	5200
D660	DP222LA	4620	3800	820	1850	2780	2300	480	5600
D700	DP222LB	4870	4050	820	1850	2810	2330	480	6000
D750	DP222LC	4870	4050	820	1850	2810	2330	480	6500

* 제작시 size 변동될 수 있습니다.

방음형 본넷 외형 설명(내부)



방음형 본넷 외형 설명(외부)



Free Standing Control Panel

Standard Generator Set Features

별치형 운전반

별치형 운전반 선택사양

Option spec. for classified control panel

Item	Contents		Semi-automatic																
			Classified control panel																
			J0	J1	J2	J3	J4	J5	J6	J7	J8	J9							
Main circuit breaker	ABC 4P	Solenoid type	-	Fixed type	○					○		○							
		Motor charging	OCTD	Drawer type		○							○	○				○	
		OCTD				○													
							○												
Added protective circuit	Indication of lack of fuel					○													
	Indication type OCGR(including the CT)					○	○	○	○	○	○	○	○	○	○	○	○	○	○
Relay	Electronic OVR, OCR, UVR																		
	Electronic OVR, OCR, UVR					○												○	
	Indication type OVR, OCR, UVR						○	○	○									○	
Energy meter and transducer	Energy meter																		
	Transducer(V, A, Hz, kWh, PF)					○	○	○										○	
	ransducer(DCV)						○												
	Transducer(V, A, Hz, kWh, PF)					○												○	
Records	Records of circuit breaker and relays by an authorized institution					○	○	○	○	○	○	○	○	○	○	○	○	○	

The main circuit breaker lower than 380V ONLY DSG 170 comply with the MCCB 4P standard.

표준보호기능 및 경보장치

Standard Protective Functions & Alarm Indicators

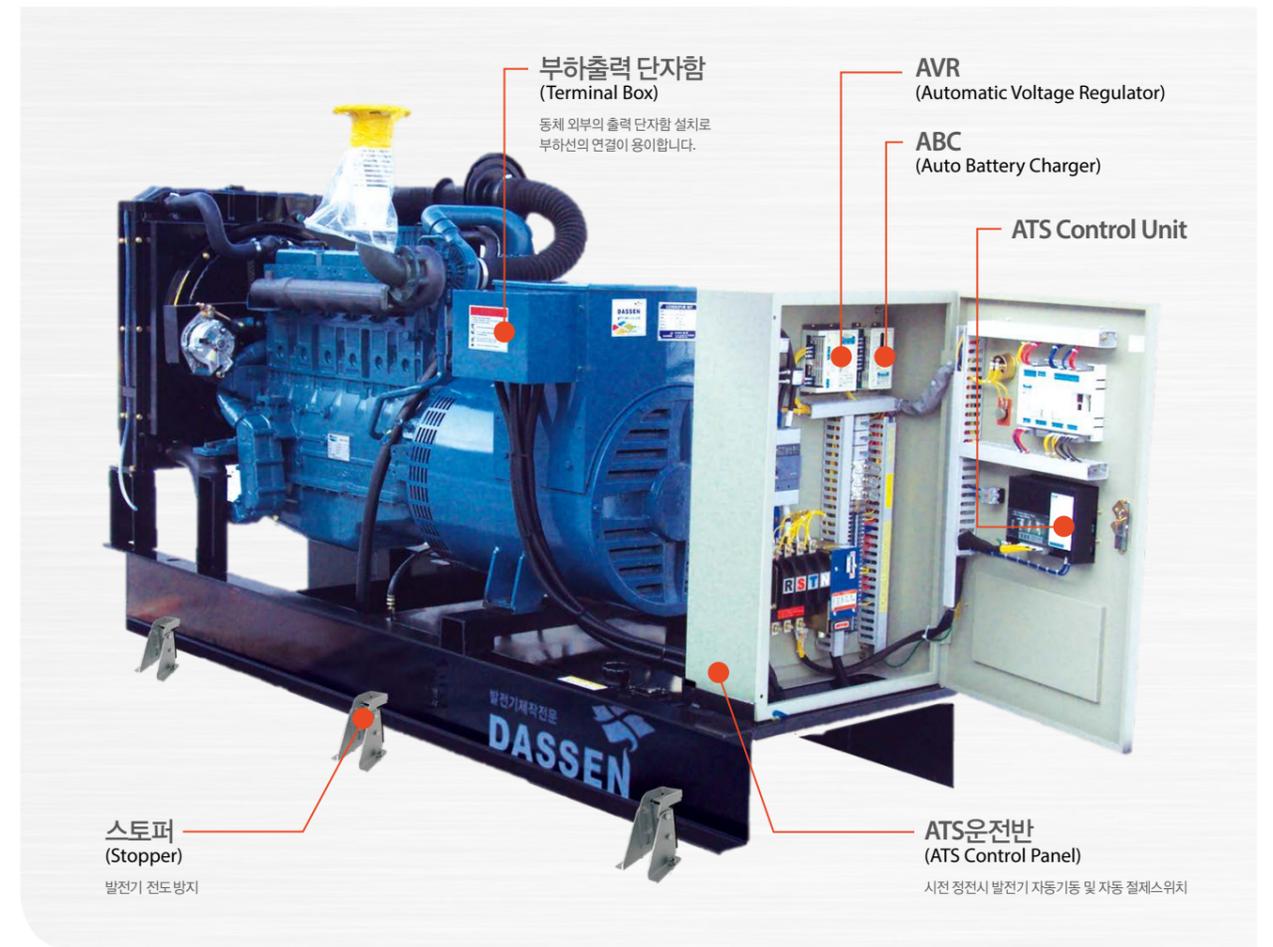
Indicators	Type	Engine stop	Breaker trip	Indication lamp	Setting value	Remarks
Low lubrication oil pressure		○	○	○	0.6kg/cm ²	
Over temperature of cooling water		○	○	○	95 °C or higher, 103 °C or higher	
Over speed		○	○	○	120% or faster of the rated speed	
Start-up fail		○	○	○	Repeat start-up 3times in automatic start-up	Semi-automatic
Over voltage		○	○	○	110% or higher	
Low voltage		×	○	○	90% or lower	
Over current		×	○	○	120% or lower	

별치형 판넬

Classified Panel

PCB를 사용하여 정비성 향상 및 신뢰성 있는 품질을 제공합니다. 중앙집중식 운전반으로 발전기 상태를 쉽게 파악할 수 있으며 간편한 동작을 제공합니다. 아울러 다양한 선택사양을 구비하여 수요자의 요구사항을 만족시켜 드립니다. 별치형 운전반은 ACB를 내장하여 발전기가 기동/정지 및 보호회로 동작시 수동/자동으로 투입/차단 됨으로써 발전기 안정성 향상 및 동작의 편리성을 위해 설계 되었습니다. 아울러 PT를 취부하여 전압계 및 운전반의 입력전압을 보다 정확하게 감지 및 공급할 수 있습니다.

The generator set achieves improved maintenance and provides reliable quality by using the PCB. By means of the centralized control panel, it is easy to check the state of the generator and achieves easy operation. With various optional specifications, your requirements are always satisfied. The classified control panel has a built-in ACB(Air Circuit Breaker) to achieve stability and easy control of the generator because the generator is manually/automatically input and cut when starting up/stopping or operating by the protective circuit. In addition, it is possible to exactly detect and provide input power to the voltmeter and the control panel by fitting a Potential Transformer(PT).



자립식 별치형 운전반

Free Standing Control Panel

다센 별치형 운전반은 디지털 타입이 표준사양으로 운전이 용이하고 운전상태를 손쉽게 확인할 수 있으며, 주 차단기는 ACB, VCB를 사용하는 자동운전에 적합하도록 제작 되었습니다.

Free standing control panel of Dassen is a digital type as standard, easy operation and can check operation without difficulty. Main circuit breaker is suitably made for Automatic operation used ACB and VCB.

* 선택사양 : ATS(자동절제스위치) Type이 있습니다.

Type A



Type B



Synchro Power Control System

Standard Generator Set Features

병렬 운전반

Standard Features

- 발전기간 병렬
- 한전병렬 [계통연계]
 - Base Load Mode(고정부하 적용)
 - Peak Shaving Mode(Peak 부하 적용)
 - Load Take Over Mode(예고정전시 한전대체)



병렬 발전기의 장점

The merits of a parallel generator

- 구입가격 저렴
 - 부하량에 따른 부하분담 대응 용이
 - 에너지효율 높음
 - 발전기 이상시 50% 부하 운전 가능
 - 단납기 대응 용이
 - 유지보수비용 저렴 - 부품가격 저렴 및 구입 용이
 - 신속한 A/S
- The purchase price is cheap
 - It is easy to take action for loading - high energy efficiency
 - When generator has problems, it is possible to operate more than 50%
 - Easy for short period of delivery
 - Low-priced for maintenance fee - inexpensive accessories and easy purchasement
 - Rapid A/S

Diesel Generator Set Rating(1,800rpm/60Hz)				Diesel(1,800rpm/60Hz)					연료 소모율 (l/Hr)	기초대 (가로X세로) mm
Standby Output		Prime Output		Engine Model	Output(ps)		급기방식	조속기		
kW	kVA	kW	kVA		Standby	Prime				
800	1000	727	909	P158LE x 2	1246	1094	TI	electric governor	149.4	3100x4000
1000	1250	909	1136	DP158LD x 2	1468	1352	TI	electric governor	186.8	3500x4000
1250	1563	1136	1420	DP222LAS x 2	2000	1824	TI	electric governor	258.6	3800x4000
1500	1875	1364	1705	DP222LC x 2	2230	1996	TI	electric governor	270.6	3915x4440
2000	2500	1818	2273	DP222LB x 3	3345	2994	TI	electric governor	378.9	3915x6660
3000	3750	2727	3409	DP222LC x 4	4460	3992	TI	electric governor	541.2	3915x8880

* 연료소모율은 75% 부하 상용출력 기준임

부하시험기 Load Bank

- 당사가 보유하고 있는 저항부하 2900Kw
 - Resistance Load that this company holds 2900Kw



운전방식에 따른 기능

Functions according to operation type

Item	Sole Operation			Parallel Operation	
	Manual	Semi-automatic	Automatic	Semi-automatic	Automatic
Operation/Stop	Manual	Automatic	Automatic	Manual	Automatic
Load Operation	Manual	Automatic	Automatic	Manual	Automatic
Parallel Operation	Not-applied	Not-applied	Not-applied	Automatic	Automatic
Units control according to load variation	Not-applied	Not-applied	Not-applied	Manual	Automatic
Parallel Operation according to time	Not-applied	Not-applied	Not-applied	Manual	Automatic

* Semi-automatic and automatic type of the sole operation is classified according to whether ATS is mounted or not. (Automatic type: ATS is mounted)

보호회로

Protection Circuit

Protection Level		Functions	Engine stop	Breaker trip	Breakdown LED	Error message
Heavy-breakdown	ALARM LED On Error message Engine stop Breaker trip	Low lubrication oil pressure, Over temperature of cooling water	○	○	○	○
		startup fail, engine over-speed, emergency shutdown, over-voltage	○	○	○	○
		over-current, low-voltage, Grounding over-current(option), Counter electro-motive force(EMF)	×	○	○	○
Light-breakdown	ALARM LED On Error message	over-frequency 2, over-voltage 2, over-current 2, over-load 2, imbalance voltage/current, low-frequency	×	×	○	○
		Failure in battery charge, over-load, low-temperature of cooling water, battery over/low-voltage, lack of fuel(option)	×	×	○	○
		Unusual operation of main circuit breaker, failure in synchronization, Over-load 1, over-frequency 1, over-voltage 1, Over-current 1	×	×	○	○

Doosan Engine Generator Set

Specification Data (60Hz)

ENGINE OF MAKER		DOOSAN INFRACORE																		
GENERATOR	MODEL	D90	D130	D175	D200	D230	D250	D275	D300	D330	D360	D400	D450	D500	D550	D610	D660	D700	D750	
	Rating (KW)	Stand by	90	130	175	200	230	250	275	300	330	360	400	450	500	550	610	660	700	750
		Prime	81	117	158	180	209	225	248	270	300	324	360	409	455	500	555	600	636	682
	0.8PF (KVA)	Stand by	113	163	219	250	288	313	344	375	413	450	500	563	625	688	763	825	875	938
		Prime	101	146	198	225	261	281	310	338	375	405	450	511	569	625	694	750	795	853
	Voltage	120/208 & 220/380 & 440 Volts or 3300~6600 Volts																		
	Regulation & Adjusting	Voltage Control for steady state : 1~2%, Temporary with in +5-10% of rated voltage(normal condition) by AVR																		
	Frequency & RPM	60Hz - 1800 RPM For Engine Speed Rating																		
	Poles & Phase	4 Pole & Single Phase 2~3 Wire or 3 phase/3~4 Wire and Y connection system																		
	Type & Insulation	Brushless , self excited and insulation class F type(Fan Air Cooled System)																		
DIESEL ENGINE	ENGINE MODEL	D1146	D1146T	DE12T	P086TI	DP086LA	P126TI-3	P126TI	P126TI-II	DP126LA	DP126LB	P158LE	DP158LC	DP158LD	DP180LA	DP180LB	DP222LA	DP222LB	DP222LC	
	Output (PS)	Stand by	143	202	270	303	344	375	405	465	510	547	623	697	756	836	899	1002	1063	1126
	Prime	130	170	245	279	313	343	378	418	470	498	547	634	687	760	817	911	967	1023	
FUEL CONSUMPTION (L/hr)	Stand by	25%	12.8	18.6	15.2	19.8	16.2	21.5	22.2	24.6	25.8	27.06	26.5	34.9	37.4	42	44.9	48.4	51	53.3
		50%	14.9	20.5	31.4	27.7	30.5	34.9	38.7	41.4	43.5	45.54	55.8	62.7	68.1	79.4	85	90	95	99.3
		75%	20.8	28.1	44.4	41.6	45.4	52	56.3	61.5	64.6	67.65	83.9	91.4	101	116.7	125.2	132.3	140.4	147.2
		100%	26.6	35.9	49	56.8	62.9	68.2	76.5	89.5	94.0	98.45	115.7	123.8	139.6	154.1	165.3	179.9	192.8	203.8
	Prime	25%	8.9	11.4	15.1	13.8	15.5	18.3	20.3	20.6	21.6	22.66	28	32.3	35.2	38.6	41.2	44.5	46.9	49.1
		50%	13.6	18.1	24.9	25.1	28.3	32.6	36.2	37	38.9	40.7	50.6	57.7	62.3	72.6	77.7	82.6	87.1	91.3
		75%	19	24.9	34.9	37.7	41.7	47.1	52.3	56	58.8	61.6	74.7	83.4	92.9	106.6	114.2	120.4	127.7	134.4
		100%	24.7	32.5	45.8	50.6	56	63.3	70.3	73.8	77.5	81.18	102.5	111.5	127.1	140.5	150.7	161.7	172.7	183.2
SIZE	Genset of Dimension (mm)	L	2400	2400	2600	2650	2650	2994	2994	2994	3040	3040	2990	2990	2990	3200	3200	3390	3390	3670
		W	850	850	920	926	926	1107	1107	1107	1125	1125	1396	1396	1396	1397	1397	1397	1397	1397
		H	1491	1552	1480	1685	1685	1633	1633	1633	1740	1740	1794	1854	1854	1854	1854	2130	2130	2130
	Total Weight(kg)	1450	1512	1970	1800	2000	2410	2416	2560	2650	2700	2818	2890	2894	3800	3864	4200	4250	4314	

Specifications are subject to change without prior notice

Doosan Engine Generator Set

Specification Data (50Hz)

ENGINE OF MAKER		DOOSAN INFRACORE																	
GENERATOR	MODEL	DC70	DC100	DC145	DC175	DC200	DC225	DC250	DC265	DC280	DC320	DC370	DC400	DC450	DC500	DC550	DC600	DC660	
	Rating (KW)	Stand by	72	100	145	175	200	225	245	265	285	320	370	400	450	500	550	600	660
		Prime	65	91	131	160	182	199	215	239	258	289	323	364	409	455	500	545	600
	0.8PF (KVA)	Stand by	90	125	181	219	250	281	306	331	356	400	463	500	563	625	688	750	825
		Prime	81	114	164	199	227	249	269	299	323	361	404	455	511	569	625	681	750
	Voltage	120/208 & 220/380 & 440 Volts or 3300~6600 Volts																	
	Regulation & Adjusting	Voltage Control for steady state : 1~2%, Temporary with in +5-10% of rated voltage(normal condition) by AVR																	
	Frequency & RPM	50Hz - 1500 RPM For Engine Speed Rating																	
	Poles & Phase	4 Pole & Single Phase 2~3 Wire or 3 phase/3~4 Wire and Y connection system																	
	Type & Insulation	Brushless , self excited and insulation class F type(Fan Air Cooled System)																	
DIESEL ENGINE	ENGINE MODEL	D1146	D1146T	DE12T	P086TI	DP086LA	P126TI-3	P126TI	P126TI-II	DP126LA	DP126LB	P158LE	DP158LC	DP158LD	DP180LA	DP180LB	DP222LB	DP222LC	
	Output (PS)	Stand by	116	160	223	270	305	343	370	400	437	492	563	610	693	750	832	903	983
	Prime	105	145	203	240	277	304	328	360	399	445	494	555	630	682	756	821	894	
FUEL CONSUMPTION (L/hr)	Stand by	25%	7.7	8.6	11.4	12.7	13.8	16.5	18.3	18.3	19.2	20.13	26.5	29.6	32.3	38.3	41.9	42.5	45.6
		50%	11.6	14.3	21.3	23.7	26	30.1	33.4	34.9	36.6	38.39	49.6	53.4	60.9	70.7	77.7	80.1	86.4
		75%	16.1	20.4	32	35.5	39.8	44.2	49.1	51.6	54.2	56.76	74.8	80.5	91.1	103	113.6	120.4	129.1
		100%	20.8	27	43.6	48.4	54.4	59.6	66.2	77.6	81.5	85.36	102.9	110.9	127.8	135.4	149.5	162.7	172.8
	Prime	25%	7.5	8.2	10.7	11.3	13	14.8	16.4	16.9	17.7	18.59	23.7	27.6	30.3	35.4	38.6	39.2	42.1
		50%	11.3	13.6	19	21.1	24.6	27	30	31.3	32.9	34.43	43.9	48.9	55.1	64.8	71.2	73	79.3
		75%	15.9	19.5	28.5	31.7	36.8	39.2	43.6	47	49.4	51.7	65.1	72.9	83.4	94.2	103.8	109.2	119.1
		100%	20.6	25.9	38.8	43.1	48.7	52.3	58.1	63.1	66.3	69.41	89.3	99.6	115.1	123.6	136.4	147.1	161
SIZE	Genset of Dimension (mm)	L	2400	2400	2600	2650	2650	2994	2994	2994	3040	3040	2990	2990	2990	3200	3200	3390	3670
		W	850	850	920	926	926	1107	1107	1107	1125	1125	1396	1396	1396	1397	1397	1397	1397
		H	1491	1552	1480	1685	1685	1633	1633	1633	1740	1740	1813	1813	1813	1873	1873	2158	2158
	Total Weight(kg)	1450	1512	1800	1800	2000	2410	2416	2560	2650	2700	2818	2890	2894	3800	3864	4250	4314	

Small Engine Generator Set

Specification Data

ENGINE OF MAKER		HYUNDAI HEAVY INDUSTRIES					WEICHAI						
GENERATOR	MODEL	H26	H35	H40	H55	H60	W20	W26	W37	W50	W60	W70	
	Rating (KW)	Stand by	26	35	40	55	60	20	26	37	50	60	70
		Prime	24	32	36	50	54	18	24	34	45	55	63
	0.8PF (KVA)	Stand by	33	44	50	69	75	25	33	46	63	75	88
		Prime	30	40	45	63	68	23	30	42	57	69	80
	Voltage	120/208 & 220/380 & 440 Volts or 3300~6600 Volts											
	Regulation & Adjusting	Voltage Control for steady state : 1~2%, Temporary with in +5-10% of rated voltage(normal condition) by AVR											
	Frequency & RPM	60Hz - 1800 RPM For Engine Speed Rating											
	Poles & Phase	4 Pole & Single Phase 2~3 Wire or 3 phase/3~4 Wire and Y connection system											
	Type & Insulation	Brushless , self excited and insulation class F type(Fan Air Cooled System)											
DIESEL ENGINE	ENGINE MODEL	D48B-AG39	D48B-AG49	D4AF-G	D4AK-G	D4DA-G	WP2.1D21E	WP2.3D32E	WP2.3D47E	WP4.1D54E	WP4.1D70E	WP4.1D80E	
	Output (PS)	Stand by	45	55	60	82	107	33	43	63	80	95	107
		Prime	40	50	54	74	96	28	39	57	72	87	97
FUEL CONSUMPTION (L/hr)	Prime	25%						2.1	2.7	4.2	4.6	5.5	6.6
		50%						3.1	3.8	5.7	6.3	7.6	9.7
		75%						4.5	5.7	8.7	9.6	11.5	14.6
		100%	9.5	11	12	15.6	20	5.6	7.3	11.3	12.5	15	18.1
SIZE (Mounted)	Genset of Dimension (mm)	L	1500	1650	1800	2000	2000	1510	1560	1560	1800	1900	1900
		W	640	653	790	790	790	660	714	714	800	864	864
		H	1100	1170	1285	1360	1370	1050	1064	1064	1515	1218	1218
	Total Weight(kg)	700	700	800	900	1000	600	700	900	1100	1200	1300	
SIZE (Sound proof)	Genset of Dimension (mm)	L	2020	2170	2420	2620	2620	2020	2020	2320	2320	2420	2520
		W	900	900	1000	1000	1000	900	900	1000	1000	1100	1100
		H	1530	1580	1750	1820	1820	1670	1670	1690	1690	1790	1850
	Total Weight(kg)	900	1100	1300	1400	1400	800	1000	1300	1500	1700	1900	
SIZE (ATS Sound proof)	Genset of Dimension (mm)	L	2370	2470	2870	3070	3070	2320	2320	2770	2770	2870	2970
		W	900	900	1000	1000	1000	900	900	1000	1000	1100	1100
		H	1530	1580	1750	1820	1820	1670	1670	1690	1690	1790	1850
	Total Weight(kg)	1000	1200	1400	1500	1500	900	1200	1400	1600	1800	2000	

Baudouin Engine Generator Set

Specification Data

ENGINE OF MAKER		BAUDOIN								
GENERATOR	MODEL	B800	B900	B1000	B1200	B1300	B1500	B1600	B1760	
	ENGINE MODEL	12M26D902	12M26D1012	12M26D1115	12M33D1320	12M33D1420	16M33D1680	16M33D1785	16M33D1920	
	Rating (KW)	Stand by	800	900	1000	1200	1300	1500	1600	
		Prime	720	800	900	1100	1170	1364	1455	
	0.8PF (KVA)	Stand by	1000	1125	1250	1500	1625	1875	2000	
		Prime	900	1000	1125	1375	1463	1705	1818	
	60Hz	Rating (KW)	Stand by	720	800	880	1050	1100	1275	1479
			Prime	640	720	800	950	1050	1159	1345
		0.8PF (KVA)	Stand by	900	1000	1100	1313	1375	1594	1849
			Prime	800	900	1000	1188	1312	1449	1681
50Hz	60Hz	20%	65.4	69.1	65.4	72.9	82.6	83.8	88.6	
		50%	121.3	116.4	125.6	139.5	158.1	183.4	196.6	
		80%	164.1	182.7	198.4	220.5	249.8	282.4	304.6	
		100%	203.3	231.3	255.3	283.9	321.7	359.5	383	
	50Hz	20%	53.2	56.9	50.3	55.7	62.3	69.5	68.7	
		50%	91.9	100.1	104.4	115.4	129.1	152.2	147.6	
		80%	134.9	152.8	163.3	181.4	203.1	237	227.5	
		100%	168.9	192.1	208.1	231.1	258.6	300.5	290	
SIZE	Genset of Dimension (mm)	L	4370	4370	4370	4749	4749	5100	5100	
		W	1992	1992	1992	2194	2194	2250	2250	
		H	2314	2314	2314	2411	2411	2588	2588	
	Total Weight(kg)	7200	7200	7200	7500	7500	12000	12000		

Cummins Engine Generator Set

Specification Data

ENGINE OF MAKER		CUMMINS									
MODEL		C900	C1000	C1250	C1500	C1750	C2000	C2500	C2700		
ENGINE MODEL		QST30-G3	QST30G4	KTA50G3	KTA50G9	QSK60G3/6	QSK60G3/6	QSK78G6/9	QSK78G8/9		
GENERATOR	60Hz	Rating (KW)	Stand by	900	1000	1250	1500	1750	2000	2500	2700
			Prime	8009	900	1100	1350	1591	1818	2336	2500
	0.8PF (KVA)	Stand by	1125	1250	1560	1875	2187	2500	3125	3438	
		Prime	1000	1125	1375	1687	1987	2272	2920	3125	
50Hz	Rating (KW)	Stand by	800	875	1120	1300	1500	1650	2200	2400	
		Prime	720	790	1000	1182	1364	1500	2000	2200	
	0.8PF (KVA)	Stand by	1000	1094	1400	1625	1875	2062	2750	3000	
		Prime	900	987	1250	1477	1705	1875	2500	2750	
Voltage		220/127 & 380/220 & 440/254 Volts or 3300~6600 Volts									
Regulation & Adjusting		Voltage Control for steady state : 1~2%, Temporary with in +5-10% of rated voltage(normal condition) by AVR									
Frequency & RPM		50Hz - 1500 RPM/60Hz - 1800 RPM For Engine Speed Rating									
Poles & Phase		4 Pole 3 Phase 4 Wire									
Type & Insulation		Four stroke diesel internal combustion engine(Radiator & Heat Exchanger Cooling Type)/H CLASS									
FUEL CONSUMPTION	60Hz	100%	228	267	330	392	521	521	663	704	
	50Hz		204	224	293	392	408	408	663	704	
SIZE	Genset of Dimension (mm)	L	4800	4800	5500	5500	6100	6400	7600	7600	
		W	2300	2300	2300	2300	2900	2900	3100	3300	
		H	2750	2750	2750	2750	2750	2750	3371	3371	
	Total Weight(kg)		7100	7600	9900	11400	15500	16500	25200	25800	

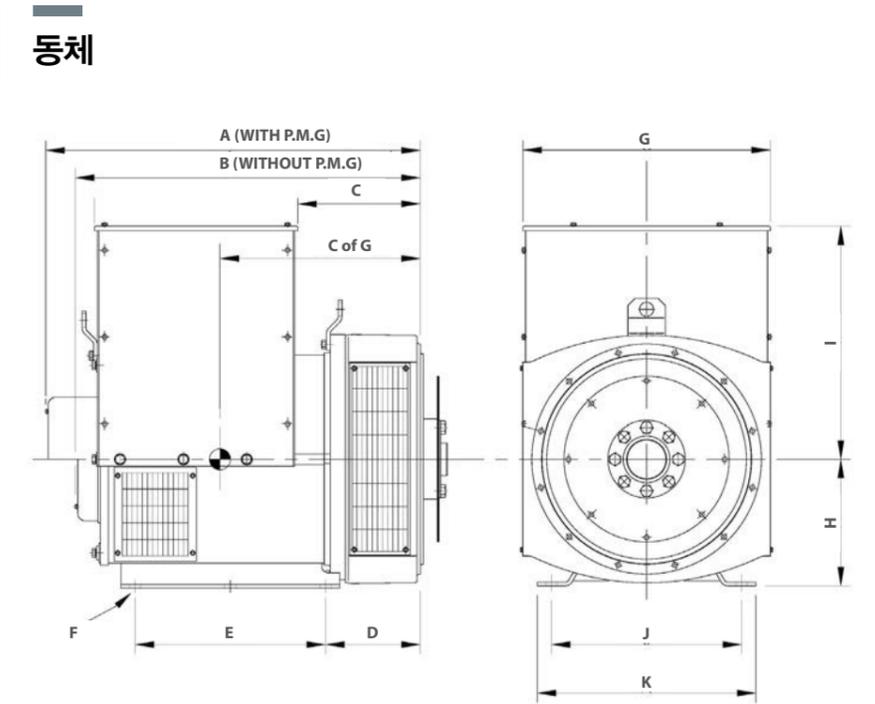
MTU Engine Generator Set

Specification Data

ENGINE OF MAKER		MTU											
MODEL		M900	M1000	M1200	M1300	M1500	M1750	M2100	M2300	M2500	M2800		
ENGINE MODEL		16V2000G43 /23	16V2000G83	18V2000G83 /63	12V4000G41 /61	12V4000G81 /21	16V4000G41 /61	16V4000G43 /23	16V4000G83 /63	20V4000G43 /23	20V4000G83 /63		
GENERATOR	60Hz	Rating (KW)	Stand by	900	1000	1200	1300	1500	1750	2100	2300	2500	2800
			Prime	820	910	1090	1170	1400	1591	1850	2091	2272	2500
	0.8PF (KVA)	Stand by	1125	1250	1500	1625	1875	2188	2625	2875	3125	3500	
		Prime	1025	1138	1362	1463	1750	1989	2313	2614	2840	3125	
50Hz	Rating (KW)	Stand by	800	880	1000	1200	1450	1600	1800	2000	2200	2400	
		Prime	720	800	900	1100	1300	1450	1636	1800	2000	2200	
	0.8PF (KVA)	Stand by	1000	1100	1250	1500	1813	2000	2250	2500	2750	3000	
		Prime	900	1000	1125	1375	1625	1813	2045	2250	2500	2750	
Voltage		220/127 & 380/220 & 440/254 Volts or 3300~6600 Volts											
Regulation & Adjusting		Voltage Control for steady state : 1~2%, Temporary with in +5-10% of rated voltage(normal condition) by AVR											
Frequency & RPM		50Hz - 1500 RPM/60Hz - 1800 RPM For Engine Speed Rating											
Poles & Phase		4 Pole 3 Phase 4 Wire											
Type & Insulation		Four stroke diesel internal combustion engine(Radiator & Heat Exchanger Cooling Type)/H CLASS											
FUEL CONSUMPTION	60Hz	100%	242	267	298	345	385	460	525	575	625	700	
	50Hz		183	202	250	292	300	330	450	500	550	600	
SIZE	Genset of Dimension (mm)	L	4300	4300	4900	5800	5800	5800	6800	6850	7700	7900	
		W	2000	2000	2000	2100	2100	2100	2650	2850	2900	4700	
		H	2200	2200	2600	2700	2700	2700	2700	2700	2700	2700	
	Total Weight(kg)		6950	6950	8000	10700	10700	11300	14200	14400	23500	26000	

ENGINE OF MAKER		MITSUBISHI								
MODEL		MIT-800	MIT-1000	MIT-1250	MIT-1350	MIT-1600	MIT-1800	MIT-2000		
ENGINE MODEL		S12A-PTA	S12H-PTA	S12R-PTA	S12R-PTA2	S16R-PTA	S16R-PTA2	S16R-PTAA2		
60Hz	Rating (KW)	Stand by	800	1000	1250	1350	1600	1800	2000	
		Prime	725	900	1100	1223	1450	1630	1800	
	0.8PF (KVA)	Stand by	1000	1250	1563	1687	2000	2250	2500	
		Prime	906	1125	1375	1528	1812	2037	2250	
Voltage		220/127 & 380/220 & 440/254 Volts or 3300~6600 Volts								
Regulation & Adjusting		Voltage Control for steady state : 1~2%, Temporary with in +5-10% of rated voltage(normal condition) by AVR								
Frequency & RPM		50Hz - 1500 RPM/60Hz - 1800 RPM For Engine Speed Rating								
Poles & Phase		4 Pole 3 Phase 4 Wire								
Type & Insulation		Four stroke diesel internal combustion engine(Radiator & Heat Exchanger Cooling Type)/H CLASS								
FUEL CONSUMPTION		60Hz	100%	203	247	296	329	375	440	488
SIZE	Genset of Dimension (mm)	L	4800	5000	5000	5100	6200	6300	7100	
		W	1800	1800	1800	1850	1900	1900	2600	
		H	2400	2400	2400	2500	2530	2700	3500	
	Total Weight(kg)		6300	8150	9800	10300	12250	13800	14300	

ENGINE OF MAKER		CATERPILLAR										
MODEL		CA900	CA1000	CA1100	CA1250	CA1500	CA1750	CA2000	CA2250	CA2500		
ENGINE MODEL		C32	C32	3512	3512	3512B	3512B	3516	3516B	3516C		
60Hz	Rating (KW)	Stand by	900	1000	1100	1250	1500	1750	2000	2250	2500	
		Prime	820	910	1000	1135	1360	1600	1825	2000	2250	
	0.8PF (KVA)	Stand by	1125	1250	1375	1563	1875	2188	2500	2813	3125	
		Prime	1025	1125	1250	1419	1700	2000	2281	2500	2813	
50Hz	Rating (KW)	Stand by	720	880	960	1000	1200	1400	1600	1980	2200	
		Prime	648	800	880	920	1088	1280	1460	1800	2000	
	0.8PF (KVA)	Stand by	900	1100	1200	1250	1500	1750	2000	2475	2750	
		Prime	810	1000	1100	1150	1360	1600	1825	2250	2500	
FUEL CONSUMPTION		60Hz	100%	237	272	281	344	406	465	521	594	656
		50Hz		216	218	243	267	355	370	420	475	524
SIZE	Genset of Dimension (mm)	L	4800	4800	5200	5200	5200	6100	6450	6900	7000	
		W	2000	2000	2100	2100	2300	2300	2600	2600	2500	
		H	2300	2300	2400	2400	2350	2350	3100	3100	2950	
	Total Weight(kg)		8500	8500	12500	12500	13500	15500	16200	17500	18500	



비상출력	A(WITH PM.G)	B(WITHOUT PM.G)	C	COFG	D	E	F	G	H	I	J	K	SAE
20	431.5	-	147	210	133	210	6HOLES 14DIA	400	180	254	279	319	4
26	521.5	-	237	247	133	210	6HOLES 14DIA	400	180	254	279	319	4
35	710	647	210	311	177	311	6HOLES 19DIA	434	225	465	356	406	3
45	710	647	210	321	177	311	6HOLES 19DIA	434	225	465	356	406	3
60	800	737	300	336	177	311	6HOLES 19DIA	434	225	465	356	406	3
70	845	782	345	361	177	311	6HOLES 19DIA	434	225	465	356	406	3
90	845	782	345	361	177	311	6HOLES 19DIA	434	225	465	356	406	2
130	914	851	375	378	202	406	6HOLES 24DIA	530	270	504	406	466	2
175	978.3	915.3	439.3	435	216.3	406	6HOLES 24DIA	530	270	504	406	466	1
200	1018.3	955.3	479.3	455	216.3	406	6HOLES 24DIA	530	270	504	406	466	1
230	1018.3	955.3	479.3	455	216.3	406	6HOLES 24DIA	530	270	504	406	466	1
250	1063	1000	525	440	202	406	6HOLES 24DIA	530	270	504	406	466	1
275	1063	1000	525	440	202	406	6HOLES 24DIA	530	270	504	406	466	1
300	1172	1101	584	483	232	457	4HOLES 28DIA	617	315	537	508	578	1
330	1172	1101	584	483	232	457	4HOLES 28DIA	617	315	537	508	578	1
360	1262	1191	674	530	232	457	4HOLES 28DIA	617	315	537	508	578	1
400	1262	1191	674	530	232	457	4HOLES 28DIA	617	315	537	508	578	1
450	1337	1266	642	555	297	500	4HOLES 28DIA	698	355	616	610	670	1
500	1337	1266	642	555	297	500	4HOLES 28DIA	698	355	616	610	670	1
550	1337	1266	642	555	297	500	4HOLES 28DIA	698	355	616	610	670	1
610	1337	1266	642	555	297	500	4HOLES 28DIA	698	355	616	610	670	1
660	1412	1341	717	620	297	500	4HOLES 28DIA	698	355	616	610	670	1
700	1412	1341	717	620	297	500	4HOLES 28DIA	698	355	616	610	670	1
750	1578	-	655	857	350	560	6HOLES 35DIA	772	400	748	686	786	1
800	1578	-	655	857	350	560	6HOLES 35DIA	772	400	748	686	786	0
900	1578	-	655	857	350	560	6HOLES 35DIA	772	400	748	686	786	0
1000	1578	-	655	857	350	560	6HOLES 35DIA	772	400	748	686	786	0
1200	1679	-	714	985	350	560	6HOLES 35DIA	772	400	748	686	786	0
1300	1679	-	714	985	350	560	6HOLES 35DIA	772	400	748	686	786	0
1500	1643	-	683	750	365	630	6HOLES 35DIA	864	450	830	750	870	0
1750	1793	-	735	800	365	630	6HOLES 35DIA	864	450	830	750	870	0
2000	1878	-	843	825	365	800	8HOLES 35DIA	864	450	830	750	870	0

발전기 세트 납품 갤러리
Generator Set Delivery Gallery

