

2.5 kVA

190 kVA

775 kVA

2264 kVA

# GDD

## SERIES

Diesel  
Doosan-Daewoo  
Engine

### GDD Standard Specifications

#### Engine

- DAEWOO DOOSAN Heavy duty diesel engine
- Revolution: 1500 rpm
- Water cooled
- Tropical type radiator

#### Alternator

- VDE 0530 & IEC 34-I standardizations
- Synchron type brushless
- Automatic voltage regulation (AVR)
- Overload acceptance: 110% for 1 hour, 150% for 2 minutes
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 V AC
- Voltage: 231/400 AC three phase
- Voltage regulation:  $\pm 0.5\%$
- Protection class: IP23
- Frequency: 50 Hz

#### Manuel Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

#### Automatic Control Panel

- Microprocessed AMF Electronic Control Panel
- Protection fuses
- Battery charger
- Power Transfer (For ATS)
- Emergency stop button

#### Chassis

- Mounted on the steel base chassis
- Elastic vibration dampers between engine and chassis
- Chassis integrated fuel tank
- Dial type mechanical fuel indicator

#### Canopy

- Easy lifting and moving
- Metal parts are coated with electrostatic polyester coated, powder painted
- Thermally insulated exhaust system
- Acoustic insulation with rot\*proof, moisture-repellent and non-flammable material (per DIN 4102 A2)

#### Optional Properties (based on the requirement)

- Thermic magnetic circuit breaker for automatic models
- Protection canopy
- Sound proof canopy
- Trailer mounted genset
- Automation with PLC

- Automatic fuel filling system for external fuel tank (integrated with internal fuel tank)
- Panels for synchronising and parallel running
- Electronic fuel level indicator with low fuel alarm
- Power distribution panel
- Computer controlled, remote control and monitoring system
- Electronic governor for engines with mechanical governor
- Digital or analog indicators



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Engine



### TECHNICAL SPECIFICATION DIESEL GENERATOR SET

#### Group

GDD 190 GDD 220 GDD 315 GDD 345 GDD 415 GDD 490 GDD 550 GDD 600 GDD 660 GDD 680 GDD 715 GDD 775

		GDD 190	GDD 220	GDD 315	GDD 345	GDD 415	GDD 490	GDD 550	GDD 600	GDD 660	GDD 680	GDD 715	GDD 775
Stand-by Power	kVA (kW)	190 (152)	220 (176)	315 (252)	345 (276)	415 (332)	490 (392)	550 (440)	600 (480)	660 (528)	680 (544)	715 (572)	775 (620)
Prime Power	kVA (kW)	173 (138)	200 (160)	286 (229)	312 (250)	375 (300)	440 (352)	500 (400)	550 (440)	600 (480)	630 (504)	655 (524)	-
Power Factor	cos Q	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50	50

#### Engine

Make		DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN
Model		P 086 TI -1	P 086 TI	P 086 TI	P 126 TH-II	P 158LE-1	P 158LE	P 180LE	P 180LE	P 222LE	P 222LE	P 222LE-S	P 222LE-II
Rpm	rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Prime Power	hp (kW)	149 (200)	177 (237)	241 (323)	360 (265)	444 (327)	494 (363)	443 (593)	602 (443)	532 (712,8)	723 (532)	552 (739,7)	-
Stand-by Power	hp (kW)	164 (220)	199 (267)	272 (365)	400 (294)	492 (362)	563 (414)	496 (665)	674 (496)	574 (569)	781 (574)	603 (808)	874 (652)
Number of Cylinder		6	6	6	6	8	8	10	10	12	12	12	12
Cylinder Combination		In-Line	In-Line	In-Line	In-Line	V Type	V Type	In-Line	V Type	In-Line	V Type	In-Line	V Type
Air Inducation System		T.Intercooler	T.Intercooler	T. Intercooler									
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor Type		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Cylinder Displacement	lt	8	8	8	11,051	14,618	14,618	18,2	18,273	21,9	21,9	21,9	21,9
Cylinder Bore / Stroke	mm	111/139	111/139	123/155	123/155	128/142	128/142	128/142	128/142	128X142	128X142	128X142	128X142
Compression Ratio		16,4 : 1	16,4 : 1	17:1	17:1	15:1	15:1	17:1	15 : 1	15:1	15:1	15:1	14 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	18,7	21,1	30	31,3	40	43,9	54,8	54,8	65,8	65,8	68,3	79,5
Fuel Consumption %75 Loaded	lt/h	26,7	31,7	43,6	47	58,4	65,1	81,3	81,3	97,6	97,6	99,8	119,3
Fuel Consumption %100 Loaded	lt/h	35,4	43,1	58,1	63	78,7	89,3	111,6	111,6	134	134	130	162,6
Fuel Tank Capacity w/o Canopy	lt	264	477	681	681	870	870	1050	1050	1050	1050	1050	1050
W/Canopy		168	500	813	813	410	410	410	410	410	410	410	410

#### Alternator

Type	Synchron, Brushless												
Overloaded	For 1 hour %110 in 12 hours, for 2 minutes % 150												
Insulation Resistance	2U+1000V Minimum 1800 Volt												
Short Circuit Current	For 10 seconds % 300												
Isolation Class	H	H	H	H	H	H	H	H	H	H	H	H	H
Voltage	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Tolerance Of Voltage	± %0,5												

#### Dimensions

Width w/o Canopy (w/canopy)	mm	1100 (1600)	1100 (1600)	1100 (1600)	1200 (1600)	1400 (1600)	1400 (1600)	1500 (1600)	1400 (1600)	1500 (1600)	1400 (1600)	1600 (1600)	1400 (1600)
Lenght w/o Canopy (w/Canopy)	mm	2900 (4200)	2900 (4200)	2900 (4200)	3100 (4350)	3200 (4600)	3200 (4600)	3300 (4600)	3600 (4600)	3300 (4600)	3600 (4600)	3600 (4600)	3600 (4600)
Height w/o Canopy (w/canopy)	mm	1719 (1950)	1719 (1950)	1719 (1950)	1920 (2420)	2160 (2300)	2160 (2300)	2200 (2200)	2170 (2360)	2200 (2200)	2200 (2360)	2300 (2200)	2410 (2360)
Weight w/o Canopy (w/canopy)	kg	2135 (2775)	2175 (2825)	2420 (3160)	2850 (3540)	3315 (4040)	3416 (4210)	3230 (4100)	3740 (4600)	3850 (4730)	3900 (4730)	4225 (5070)	4444 (5214)

\*CAC: Turbo Charged & Intercooled (Air to Air)

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ISO 9001:2000  
OHSAS 18001:1999  
EN 14001:2004



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