

# GDD

## SERIES

Diesel  
Doosan-Daewoo  
Engine



### TECHNICAL SPECIFICATION DIESEL GENERATOR SET

#### Group

Model		GDD 315	GDD 345	GDD 415	GDD 490	GDD 600	GDD 680	GDD 775
Stand-by Power	kVA (kWe)	315 (252)	345 (276)	415 (332)	490 (392)	600 (480)	680 (544)	775 (620)
Prime Power	kVA (kWe)	286 (229)	312 (250)	375 (300)	440 (352)	550 (440)	630 (504)	-
Power Factor	cos Ø	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Frequency	Hz	50	50	50	50	50	50	50

#### Engine

		DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN
Make		DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN
Model		P126T1	P126T1-II	P158LE-1	P158LE	P180LE	P222LE	P222LE-II
Speed	rpm	1500	1500	1500	1500	1500	1500	1500
Stand-by Power	hp (kW)	328 (241)	360 (265)	444 (327)	494 (363)	602 (443)	723 (532)	-
Prime Power	hp (kW)	370 (272)	400 (294)	492 (362)	563 (414)	674 (496)	781 (574)	874 (652)
Number of Cylinder		6	6	8	8	10	12	12
Cylinder Arrangement		Vertical Inline	Vertical Inline	V Type	V Type	V Type	V Type	V Type
Aspiration		Turbo Intercooled	Turbo Intercooled	Turbo Intercooled	Turbo Intercooled	Turbo Intercooled	Turbo Intercooled	Turbo Intercooled
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Cylinder Displacement	(lt)	11,051	11,051	14,618	14,618	18,273	21,927	21,927
Cylinder Bore x Stroke	(mm)	123 X 155	123 X 155	128 X 142	128 X 142	128 X 142	128 X 142	128 X 142
Compression Ratio		17:1	17:1	15:1	15:1	15:1	15:1	14:1
Electric System		24VDC	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC
Fuel Consumption %50 Loaded		30	31,3	40	43,9	54,8	65,8	79,5
Fuel Consumption %75 Loaded	(lt/h)	43,6	47	58,4	65,1	81,3	97,6	119,3
Fuel Consumption % 100 Loaded	(lt/h)	58,1	63,1	78,7	89,3	111,6	134	162,6
Fuel Tank Cap. Open (canopy)	(lt/h)	681 (450)	681 (450)	1082 (410)	1082 (410)	1219 (527)	1219 (527)	1219 (527)

#### 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
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
Tolerance of Voltage	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5

#### Dimensions

Width w/o Canopy (w/canopy)	(mm)	1300 (1600)	1300 (1600)	1400 (1600)	1400 (1600)	1400 (1900)	1400 (1900)	1400 (1900)
Length w/o Canopy (w/canopy)	(mm)	3100 (4350)	3120 (4350)	3240 (4600)	3100 (4600)	3500 (5000)	3500 (5000)	3610 (5000)
Height w/o Canopy (w/canopy)	(mm)	1920 (2400)	2100 (2400)	2170 (2600)	2150 (2600)	2240 (3150)	2240 (3150)	2410 (3150)
Weight w/o Canopy (w/canopy)	(kg)	2756 (3382)	2564 (3410)	3155 (4045)	3440 (4180)	3800 (5070)	4210 (5480)	4476 (5810)

GENPOWER, reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments.  
The information contained in this document may therefore be changed without notice. For more technical data and information, please contact to GENPOWER.



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



**GENPOWER**  
GENERATOR

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