

2.5 kVA

345 kVA

775 kVA

2500 kVA

GDD

SERIES

Doosan Powered Diesel Generator

GDD Standard Specifications

Engine

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

Alternator

- VDE 0530 & IEC 34-1 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 VAC
- Voltage regulation: $\pm 0,5\%$
- Protection class: IP23
- Power factor (cos ϕ): 0,8
- Frequency: 50 Hz

Manual 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



GDD

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Diesel Generator



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

		GDD 345	GDD 415	GDD 460	GDD 490	GDD 510	GDD 570	GDD 660	GDD 700	GDD 775
Stand-by Power	kVA (kW)	345 (276)	415 (332)	460 (368)	490 (392)	510 (408)	570 (456)	660 (528)	700 (560)	775 (620)
Prime Power	kVA (kW)	315 (252)	380 (304)	420 (336)	465 (372)	465 (372)	520 (416)	600 (480)	635 (508)	-
Power Factor	cos Q	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

Engine

		DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN
Make		DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN
Model		P126TH-II	P158LE-1	P158LE	P158LE	P158LE-S	P180LE	P222LE-I	P222LE-S	P222LE-II
Speed	rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Stand-by Power	bbh (kWm)	400 (294)	444 (327)	563 (414)	563 (414)	600 (441)	674 (496)	752 (553)	820 (603)	886 (652)
Prime Power	bbh (kWm)	360 (265)	492 (362)	494 (363)	494 (363)	546 (402)	615 (542)	696 (512)	750 (552)	-
Number of Cylinder		6	8	8	8	8	10	12	12	12
Cylinder Arrangement		In-Line	V Type	V Type	V Type	V Type	V Type	V Type	V Type	V Type
Cycle		4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
Aspiration		Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo AAC*
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Displacement	lt	11,05	14,61	14,61	14,61	14,61	18,27	21,92	21,92	21,92
Bore and Stroke	mm	123 x 155	128 x 142	128 x 142	128 x 142	128 x 142	128 x 142	128 x 142	128 x 142	128 x 142
Compression Ratio		17 : 1	15 : 1	15 : 1	15 : 1	15 : 1	14,6 : 1	15 : 1	14,6 : 1	14,6 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	31,3	40,0	43,9	43,9	43,9	54,5	62,2	68,3	79,5
Fuel Consumption %75 Loaded	lt/h	47,0	58,4	65,1	65,1	74,0	81,2	89,7	99,8	119,3
Fuel Consumption %100 Loaded	lt/h	63,1	78,7	89,3	89,3	99,5	108,9	120,6	130,0	162,6
Fuel Tank Capacity, w/o Canopy	lt	673	1066	1066	1066	1066	1193	1193	1193	1193
Canopy	lt	455	399	399	399	399	527	527	527	527

Alternator

Type	Synchron, Brushless									
Over Loaded	For 1 hour %110 in 12 hours, for 2 minutes % 150									
Insulation Resistance	2U+1000V	Minimum 1800 Volt								
Short Circuit Resistance	For 10 seconds % 300									
Insulation Class	H	H	H	H	H	H	H	H	H	H
Voltage	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Voltage Regulation	±5 %0,5									

Dimensions

Width, w/o Canopy (Canopy)	mm	1360 (1600)	1500 (1600)	1500 (1600)	1550 (1600)	1550 (1600)	1550 (1900)	1550 (1900)	1460 (1900)	1460 (1900)
Length, w/o Canopy (Canopy)	mm	3100 (4350)	3200 (4600)	3200 (4600)	3200 (4600)	3200 (4600)	3600 (5000)	3600 (5000)	3600 (5000)	3600 (5000)
Height, w/o Canopy (Canopy)	mm	1920 (2362)	2170 (2600)	2170 (2600)	2170 (2600)	2170 (2600)	2240 (2853)	2320 (2853)	2320 (2853)	2410 (2853)
Weight, w/o Canopy (Canopy)	kg	2736 (3410)	3155 (4045)	3350 (4130)	3350 (4290)	3500 (4400)	3710 (4800)	4290 (5325)	4372 (5400)	4450 (5810)

* AAC (Air-to-Air-Cooling): Charged hot air by turbo is cooled by the air radiator in the system.
 ** WAC (Water-to-Air-Cooling): Charged hot air by turbo is cooled by water in the cooling system.

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 9001:2008
OHSAS 18001:2007
ISO 14001:2004



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