

2.5 kVA

13 kVA

275 kVA

2264 kVA

GNT

SERIES

Inter Powered
Diesel Generator



GNT Standard Specifications

Engine

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

Alternator

- GENPOWER (GNP)
- 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

Manuel Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (MCCB)
- 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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GENPOWER[®]
GENERATOR

GNT

SERIES

Inter Powered Diesel Generator



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

		GNT 13	GNT 22	GNT 33	GNT 55	GNT 70	GNT 94	GNT 120	GNT 165	GNT 190	GNT 220	GNT 275
Stand-by Power	KVA (kW)	13 (10)	22 (18)	33 (26)	55 (44)	70 (56)	94 (75)	120 (96)	165 (132)	190 (152)	220 (176)	275 (220)
Prime Power	KVA (kW)	13 (10)	20 (16)	30 (24)	50 (40)	64 (51)	85 (68)	109 (87)	150 (120)	173 (138)	200 (160)	255 (204)
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
Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50

Engine

Make		INTER	INTER	INTER	INTER	INTER	INTER	INTER	INTER	INTER	INTER	INTER
Model		IDE 314 NG	IDE 422 NG	IDE 430 NG	IDE 442 NG	IDE 451 NG	IDE 452 TG	IDE 455 TGA	IDE 680 TG	IDE 6150 TG	IDE 6150 TG	IDE 6200 TG
Speed	rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Stand-by Power	bbh (kWm)	18 (14)	28 (21)	42 (31)	66 (49)	84 (62)	111 (83)	140 (105)	192 (143)	257 (189)	266 (196)	321 (236)
Prime Power	bbh (kWm)	17 (13)	26 (19)	37 (28)	62 (46)	76 (56)	101 (75)	127 (95)	173 (129)	234 (172)	240 (177)	292 (215)
Number of Cylinder		3	4	4	4	4	4	4	6	6	6	6
Cylinder Arrangement		In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line
Cycle		4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
Aspiration		Naturally	Naturally	Naturally	Naturally	Naturally	Turbo Charged	Turbo AAC*	Turbo Charged	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	Water Cooled	Water Cooled
Governor		Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Electronic	Electronic	Electronic
Displacement	lt	1,4	2,2	3	4,2	5,1	5,5	5,5	8	10	10	10
Bore and Stroke	mm	80 x 90	85 x 95	95 x 105	105 x 118	108 x 135	110 x 135	112 x 135	112 x 135	112 x 135	112 x 135	126 x 130
Compression Ratio		18 : 1	18 : 1	19,5 : 1	17,5 : 1	17,5 : 1	17,5 : 1	17,5 : 1	17,5 : 1	17 : 1	17 : 1	17 : 1
Electric System		12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	2,1	3,0	3,9	6,8	7,7	10,2	12,6	15,3	22,0	25,0	28,6
Fuel Consumption %75 Loaded	lt/h	2,9	4,2	5,8	9,8	11,5	15,0	18,6	20,7	29,0	34,0	40,1
Fuel Consumption %100 Loaded	lt/h	3,8	5,5	7,5	13,1	15,0	19,5	24,2	27,0	40,0	46,0	51,6
Fuel Tank Capacity, w/o Canopy	lt	55	55	55	134	190	190	256	256	256	256	375
Canopy	lt	86	86	115	284	284	359	359	315	315	315	315

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	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	230/400 V	230/400 V
Voltage Regulation	±5 %0,5											

Dimensions

Width, w/o Canopy (Canopy)	mm	680 (960)	680 (960)	680 (1000)	740 (1000)	800 (1000)	940 (1100)	940 (1100)	1000 (1150)	1160 (1150)	1160 (1150)	1100 (1150)
Length, w/o Canopy (Canopy)	mm	1400 (2000)	1420 (2000)	1420 (2300)	1760 (2600)	2020 (2600)	2030 (2950)	2420 (2950)	2400 (3800)	2700 (3800)	2800 (3800)	2900 (3800)
Height, w/o Canopy (Canopy)	mm	1250 (1340)	1240 (1340)	1270 (1440)	1560 (1540)	1560 (1540)	1730 (2135)	1580 (2135)	2000 (2150)	2100 (2150)	2100 (2150)	1950 (2150)
Weight, w/o Canopy (Canopy)	kg	460 (738)	530 (810)	650 (940)	810 (1170)	1040 (1378)	1164 (1666)	1245 (1790)	1593 (2270)	1806 (2648)	1668 (2687)	2220 (2780)

* 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

