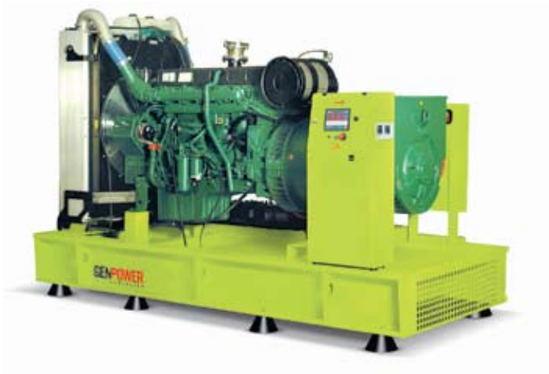
GVP SERIES
Diesel
VOLVO PENTA
Engine



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

Model		GVP 450	GVP 506	GVP 559	GVP 630	GVP 700
Stand-by Power	kvA (kW)	450 (360)	506 (405)	559 (447)	630 (504)	700 (560)
Prime Power	kvA (kW)	409 (327)	462 (369)	500 (400)	570 (456)	630 (504)
Power Factor	cos Q	0.8	0.8	0.8	0.8	0.8
Frequency	Hz	50	50	50	50	50

Engine

Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 1242GE	TAD 1640GE	TAD 1641GE	TAD 1642GE	TWD 1643 GE
Rpm	rpm	1500	1500	1500	1500	1500
Prime Power	kW (HP)	352 (479)	392 (533)	430(585)	485 (660)	536 (729)
Stand-by Power	kW (HP)	387 (526)	431 (586)	473(643)	536 (729)	596 (811)
Number of Cylinder		6	6	6	6	6
Cylinder Combination		In-Line	In-Line	In-Line	In-Line	In-Line
Air Induction System		Turbo IntercoolerCAC***	Turbo IntercoolerCAC***	Turbo IntercoolerCAC***	Turbo IntercoolerCAC***	Turbo Intercooler WAC**
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor Type		Electronic	Electronic	Electronic	Electronic	Electronic
Cylinder Displacement	lt	12.13	16.12	16.12	16.12	16.12
Cylinder Bore / Stroke	mm	131 / 150	144 / 165	144 / 165	144 / 165	144 / 165
Compression Ratio		17,5 : 1	17,5 : 1	16,5 : 1	16,5 : 1	16,5 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	41.8	47	50.6	56.8	62.1
Fuel Consumption %75 Loaded	lt/h	61.8	68.8	74.8	84.8	93.2
Fuel Consumption %100 Loaded	lt/h	82.8	92.7	101.2	115.3	126.2
Fuel Tank Capacity - w (w/o)canopy	lt	813 (681)	410 (900)	410 (900)	410 (900)	410 (1050)

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
Voltage		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	1200 (1600)	1300 (1600)	1300 (1600)	1300 (1600)	1400 (1600)
Lenght w/o Canopy (w/Canopy)	mm	3100 (4200)	3400 (4600)	3400 (4600)	3400 (4600)	3400 (4600)
Height w/o Canopy (w/canopy)	mm	1960 (2450)	2230 (2480)	2480 (2480)	2350 (2480)	2450 (2550)
Weight w/o Canopy (w/canopy)	kg	3300 (4050)	4050 (3654)	3814 (4750)	3919 (5043)	4220 (5186)

* AAC=CAC : (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 it's 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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2.5 kVA — 94 kVA — 700 kVA — 2264 kVA

GVP SERIES
Diesel
VOLVO PENTA
Engine

GVP Standard Specifications

Engine
- VOLVO PENTA 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: ± 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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GVP SERIES

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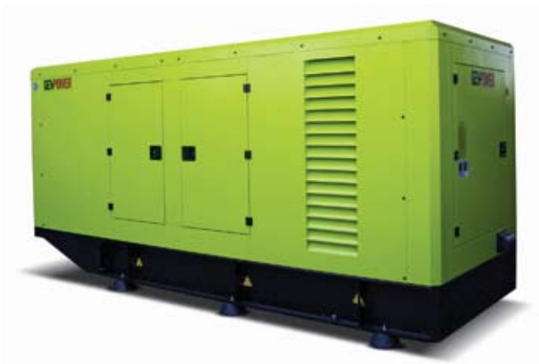

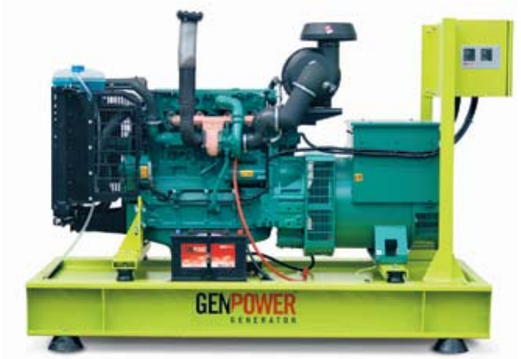

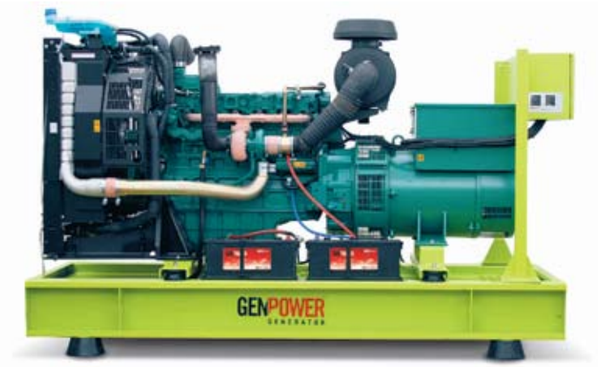

TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

Model		GVP 94	GVP 109	GVP 142	GVP 167	GVP 205
Stand-by Power	kvA (kW)	94(75)	109 (87)	142 (114)	167 (133)	205(165)
Prime Power	kvA (kW)	85 (68)	100 (80)	130 (104)	152 (121)	186(149)
Power Factor	cos Q	0.8	0.8	0.8	0.8	0.8
Frequency	Hz	50	50	50	50	50

Engine

Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TD 520GE	TAD 531GE	TD 720GE	TAD 731GE	TAD 732GE
Rpm	rpm	1500	1500	1500	1500	1500
Prime Power	kW (HP)	75 (102)	88 (119)	113 (153)	133 (180)	161 (218)
Stand-by Power	kW (HP)	83 (112)	98 (133)	124 (168)	148 (201)	179 (243)
Number of Cylinder		4	4	6	6	6
Cylinder Combination		In-Line	In-Line	In-Line	In-Line	In-Line
Air Induction System		Turbo Charged	Turbo Intercooler CAC***	Turbo Charged	Turbo Intercooler CAC***	Turbo IntercoolerCAC***
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor Type		Mechanical	Mechanical or Electronic	Mechanical	Mechanical or Electronic	Electronic
Cylinder Displacement	lt	4.76	4.76	7.15	7.15	7.15
Cylinder Bore / Stroke	mm	108 / 130	108 / 130	108 / 130	108 / 130	108 / 130
Compression Ratio		17,5 : 1	18 : 1	17.5 : 1	18 : 1	18 : 1
Electric System		12 VDC	12 VDC	12 VDC	12 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	9.45	11.7	14.4	17.6	20.8
Fuel Consumption %75 Loaded	lt/h	13.8	17	21.2	25.4	30.4
Fuel Consumption %100 Loaded	lt/h	18.9	22.7	28.7	33.8	40.5
Fuel Tank Capacity - w (w/o)canopy	lt	358 (197)	358 (197)	168 (264)	168 (264)	500 (477)

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
Voltage		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	800 (1100)	800 (1100)	900 (1150)	900 (1150)	1100 (1250)
Lenght w/o Canopy (w/Canopy)	mm	2000 (2950)	2000 (2950)	2400 (3600)	2400 (3600)	2900 (3800)
Height w/o Canopy (w/canopy)	mm	1540 (2000)	1620 (2000)	1610 (2050)	1750 (2050)	1870 (2450)
Weight w/o Canopy (w/canopy)	kg	1203 (1670)	1254 (1686)	1530 (2080)	1830 (2200)	1956 (2642)

Group

Model		GVP 226	GVP 275	GVP 305	GVP 358	GVP 412
Stand-by Power	kvA (kW)	226 (181)	275 (220)	305 (244)	358 (286)	412 (329)
Prime Power	kvA (kW)	205 (165)	250 (200)	277 (222)	326 (260)	365 (292)
Power Factor	cos Q	0.8	0.8	0.8	0.8	0.8
Frequency	Hz	50	50	50	50	50

Engine

Make		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 733GE	TAD 734 GE	TAD 940GE	TAD 941GE	TAD 1241GE
Rpm	rpm	1500	1500	1500	1500	1500
Prime Power	kW (HP)	177 (240)	216 (293)	241 (328)	280 (381)	323 (439)
Stand-by Power	kW (HP)	197 (268)	241 (327)	265 (360)	308 (419)	354 (481)
Number of Cylinder		6	6	6	6	6
Cylinder Combination		In-Line	In-Line	In-Line	In-Line	In-Line
Air Induction System		Turbo IntercoolerCAC***	Turbo IntercoolerCAC***	Turbo IntercoolerCAC***	Turbo IntercoolerCAC***	Turbo IntercoolerCAC***
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor Type		Electronic	Electronic	Electronic	Electronic	Electronic
Cylinder Displacement	lt	7.15	7.15	9.36	9.36	12.13
Cylinder Bore / Stroke	mm	108 / 130	108/130	120 / 138	120 / 138	131 / 150
Compression Ratio		18 : 1	17 : 1	20,2 : 1	17,4 : 1	17,5 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	lt/h	22.7	29.7	29.3	34.4	38.4
Fuel Consumption %75 Loaded	lt/h	33.7	41.6	42.1	49.7	56.7
Fuel Consumption %100 Loaded	lt/h	45.2	52.1	57.3	66.9	76
Fuel Tank Capacity - w (w/o)canopy	lt	500 (477)	500 (477)	813 (681)	813 (681)	813 (681)

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
Voltage		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 (1250)	1100 (1250)	1200 (1600)	1200 (1600)	1200 (1600)
Lenght w/o Canopy (w/Canopy)	mm	2900 (3800)	2900 (3800)	3100 (4350)	3100 (4200)	3100 (4200)
Height w/o Canopy (w/canopy)	mm	1870 (2450)	1876 (2460)	1880 (2450)	1890 (2450)	1960 (2450)
Weight w/o Canopy (w/canopy)	kg	1960 (2648)	2000 (2720)	2650 (3306)	2730 (3636)	3157 (3810)

* 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
*** CAC : (Charged-Air-Cooling) : Charged hot air by turbo is cooled by the air radiator in the system

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