



**ALBAYRAQ  
ALMAASY**

# GVP

# VOLVO PENTA

# SERIES

## VOLVO PENTA ENGINE



**ALBAYRAQ ALMAASY CO., LTD.**  
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GROUP		GVP 94	GVP 110	GVP 145	GVP 172
Stand By Power	kVA (kW) A	94,0 [75,2] 135,8	110,0 [88,0] 159,0	145,0 [116,0] 209,5	172,0 [137,6] 248,6
Prime Power	kVA (kW) A	85,5 [68,4] 123,5	100,0 [80,0] 144,5	131,8 [105,5] 190,5	156,4 [125,1] 226,0
Continuous Power	kVA (kW) A	59,8 [47,9] 86,4	70,0 [56,0] 101,2	92,3 [73,8] 133,3	109,5 [87,6] 158,2
Power Factor	CosQ	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50
Voltage	V	231/400	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500	1500
<b>ENGINE</b>					
Brand		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 530 GE	TAD 531 GE	TAD 532 GE	TAD 731 GE
Standby Engine Power	kW	89,0	104,0	133,0	153,0
Prime Engine Power	kW	83,0	98,0	125,0	148,0
Energy in Fuel	kW	231,0	268,0	333,0	391,0
Gross Heat to Power	kW	89,0	104,0	129,0	153,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line
Emission		EU Stage 2	EU Stage 2	EU Stage 2	EU Stage 2
Aspiration		Turbo Charge	Turbo Charge	Turbo Charge	Turbo Charge
Governing Type		Mechanic	Mechanic	Mechanic	Mechanic
Cylinder volume	L	4,76	4,76	4,76	7,15
Bore and Stroke	mm	108 x 130	108 x 130	108 x 130	108 x 130
Compression system		Direct Injection	Direct Injection	Direct Injection	Direct Injection
Compression ratio		18:1	18:1	17.5:1	18:1
Electrical system	V	12	12	12	12
Fuel consumption at 110% of prime power	l/h	22,6	26,4	33,7	38,3
Fuel consumption at 100% of prime power	l/h	20,4	23,9	30,5	34,8
Fuel consumption at 75% of prime power	l/h	15,5	18,1	23,1	26,2
Fuel consumption at 50% of prime power	l/h	10,9	12,7	16,2	18,1
Fuel tank capacity (cabinet)	L	190 [205]	190 [205]	256 [376]	256 [376]
<b>ALTERNATOR</b>					
Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		225M2	225LX	270S1	270S2
Continuous Output Power	400 / 231 kVA	91,0	109,0	141,0	159,0
Continuous Output Power	400 / 231 kW	73,0	87,0	113,0	127,0
Over-speed capability	Speed/rpm	2250	2250	2250	2250
Insulation class		H	H	H	H
Protection class		IP-23	IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1	±%1
Number of terminals		12	12	12	12
Altitude	m	1000	1000	1000	1000
<b>GENERATOR DIMENSIONS</b>					
Width open [cabinet]	mm	800 [1000]	800 [1000]	900 [1110]	1003 [1110]
Length open [cabinet]	mm	2036 [2600]	2081 [2600]	2400 [2960]	2400 [2960]
Height open [cabinet]	mm	1677 [1510]	1677 [1510]	1672 [1727]	1885 [1727]
Weight (empty) open [cabinet]	kg	1020 [1247]	1120 [1347]	1450 [1880]	1580 [2010]



GROUP		GVP 200	GVP 220	GVP 275	GVP 285
Stand By Power	kVA (kW) A	200,0 [160,0] 289,0	220,0 [176,0] 317,9	275,0 [220,0] 397,4	285,0[228,0]411,8
Prime Power	kVA (kW) A	181,8 [145,5] 262,7	200,0 [160,0] 289,0	250,0 [200,0] 361,3	259,1[207,3]374,4
Continuous Power	kVA (kW) A	127,3 [101,8] 183,9	140,0 [112,0] 202,3	175,0 [140,0] 252,9	190,0[152,0]274,6
Power Factor	CosQ	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50
Voltage	V	231/400	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500	1500

#### ENGINE

Brand		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 732 GE	TAD 733 GE	TAD 734 GE	TAD 841 GE
Standby Engine Power	kW	183,4	201,0	250,0	253,0
Prime Engine Power	kW	179,0	195,0	238,0	242,0
Energy in Fuel	kW	470,0	524,0	629,0	629,0
Gross Heat to Power	kW	183,0	201,0	250,0	250,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line
Emission		EU Stage 2	EU Stage 2	EU Stage 2	EU Stage 2
Aspiration		Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & CAC
Governing Type		Electronic	Electronic	Electronic	Electronic
Cylinder volume	L	7,15	7,15	7,15	7,15
Bore and Stroke	mm	108 x 130	108 x 130	108 x 130	110 x 135
Compression system		Direct Injection	Direct Injection	Direct Injection	Direct Injection
Compression ratio		18:1	18:1	17:1	17.5:1
Electrical system	V	24	24	24	24
Fuel consumption at 110% of prime power	l/h	45,9	50,3	62,5	62,4
Fuel consumption at 100% of prime power	l/h	41,7	45,7	56,8	56,2
Fuel consumption at 75% of prime power	l/h	31,4	34,4	42,8	41,7
Fuel consumption at 50% of prime power	l/h	21,7	23,8	29,6	28,8
Fuel tank capacity (cabinet)	L	256 [376]	256 [376]	256 [445]	256 [445]

#### ALTERNATOR

Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		270M	270M1	270L1	270L1
Continuous Output Power	400 / 231 kVA	182,0	214,0	255,0	255,0
Continuous Output Power	400 / 231 kW	146,0	171,0	204,0	204,0
Over-speed capability	Speed/rpm	2250	2250	2250	2250
Insulation class		H	H	H	H
Protection class		IP-23	IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1	±%1
Number of terminals		12	12	12	12
Altitude	m	1000	1000	1000	1000

#### GENERATOR DIMENSIONS

Width open [cabinet]	mm	1003 [1110]	1003 [1110]	1050 [1140]	1050 [1140]
Length open [cabinet]	mm	2400 [2960]	2400 [2960]	2592 [3409]	2592 [3409]
Height open [cabinet]	mm	1885 [1727]	1885 [1727]	1750 [1955]	1750 [1955]
Weight (empty) open [cabinet]	kg	1655 [2085]	1760 [2190]	1820[2194]	1820[2194]



GROUP		GVP 335	GVP 358	GVP 360	GVP 400
Stand By Power	kVA (kW) A	335,0[268,0]484,1	358,0[286,4]517,3	360,0[288,0]520,2	400,0[320,0]578,0
Prime Power	kVA (kW) A	304,0[243,6]440,1	325,5[260,4]470,3	327,3[261,8]472,9	363,6[290,9]525,5
Continuous Power	kVA (kW) A	228,0[182,4]329,5	227,8[182,3]329,2	245,0[196,0]354,0	254,5[203,6]367,8
Power Factor	CosQ	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50
Voltage	V	231/400	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500	1500
<b>ENGINE</b>					
Brand		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 842 GE	TAD 1341 GE	TAD 843 GE	TAD 1342 GE
Standby Engine Power	kW	298,0	308,0	319,0	343,0
Prime Engine Power	kW	287,0	298,0	308,0	333,0
Energy in Fuel	kW	629,0	644,0	629,0	782,0
Gross Heat to Power	kW	250,0	308,0	250,0	343,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line
Emission		EU Stage 2	EU Stage 2	EU Stage 2	EU Stage 2
Aspiration		Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & CAC
Governing Type		Electronic	Electronic	Electronic	Electronic
Cylinder volume	L	7,7	12,78	7,7	16,12
Bore and Stroke	mm	110 x 135	131 x 158	110 x 135	131 x 158
Compression system		Direct Injection	Direct Injection	Direct Injection	Direct Injection
Compression ratio		17.5:1	18.1:1	17.5:1	18.1:1
Electrical system	V	24	24	24	24
Fuel consumption at 110% of prime power	l/h	73,5	75,9	78,6	84,6
Fuel consumption at 100% of prime power	l/h	66,2	68,4	70,8	76,1
Fuel consumption at 75% of prime power	l/h	49,1	50,8	52,6	56,6
Fuel consumption at 50% of prime power	l/h	33,9	35,0	36,3	39,0
Fuel tank capacity (cabinet)	L	673 [400]	673 [400]	673 [400]	673 [400]
<b>ALTERNATOR</b>					
Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		270LXA	270LXA	270LXA	315S
Continuous Output Power	400 / 231 kVA	318,0	318,0	318,0	373,0
Continuous Output Power	400 / 231 kW	254,0	254,0	254,0	298,0
Over-speed capability	Speed/rpm	2250	2250	2250	2250
Insulation class		H	H	H	H
Protection class		IP-23	IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1	±%1
Number of terminals		12	12	12	12
Altitude	m	1000	1000	1000	1000
<b>GENERATOR DIMENSIONS</b>					
Width open [cabinet]	mm	1200 [1600]	1200 [1600]	1200 [1600]	1200 [1600]
Length open [cabinet]	mm	3107 [4600]	3107 [4600]	3107 [4600]	3266 [4600]
Height open [cabinet]	mm	2103 [2280]	2103 [2280]	2103 [2280]	2103 [2280]
Weight (empty) open [cabinet]	kg	2850 [3734]	2850 [3734]	2850 [3734]	3010 [3894]



GROUP		GVP 425	GVP 450	GVP 509
Stand By Power	kVA (kW) A	425,0[340,0]614,2	450,0[360,0]650,0	509,0[407,2]735,5
Prime Power	kVA (kW) A	386,4[309,1]558,3	409,1[327,3]591,2	462,7[370,2]668,7
Continuous Power	kVA (kW) A	270,0[216,0]390,2	286,4[229,1]413,8	323,9[259,1]468,1
Power Factor	CosQ	0,8	0,8	0,8
Frequency	Hz	50	50	50
Voltage	V	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500
<b>ENGINE</b>				
Brand		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 1343 GE	TAD 1344 GE	TAD 1345 GE
Standby Engine Power	kW	366,0	399,0	441,0
Prime Engine Power	kW	356,0	389,0	431,0
Energy in Fuel	kW	782,0	910,0	1001,0
Gross Heat to Power	kW	343,0	399,0	441,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line
Emission		EU Stage 2	EU Stage 2	EU Stage 2
Aspiration		Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & CAC
Governing Type		Electronic	Electronic	Electronic
Cylinder volume	L	12,78	12,78	12,78
Bore and Stroke	mm	131 x 158	131 x 158	131 x 158
Compression system		Direct Injection	Direct Injection	Direct Injection
Compression ratio		18.1:1	18.1:1	18.1:1
Electrical system	V	24	24	24
Fuel consumption at 110% of prime power	l/h	90,2	98,4	108,7
Fuel consumption at 100% of prime power	l/h	81,2	88,6	97,9
Fuel consumption at 75% of prime power	l/h	60,4	63,8	72,7
Fuel consumption at 50% of prime power	l/h	41,6	45,3	50,1
Fuel tank capacity (cabinet)	L	673 [400]	673 [400]	673 [400]
<b>ALTERNATOR</b>				
Brand		GENPOWER	GENPOWER	GENPOWER
Model		315M	315M	315MXA
Continuous Output Power	400 / 231 kVA	409,0	406,0	468,0
Continuous Output Power	400 / 231 kW	327,0	327,0	374,0
Over-speed capability	Speed/rpm	2250	2250	2250
Insulation class		H	H	H
Protection class		IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1
Number of terminals		12	12	12
Altitude	m	1000	1000	1000
<b>GENERATOR DIMENSIONS</b>				
Width open [cabinet]	mm	1200 [1600]	1200 [1600]	1200 [1600]
Length open [cabinet]	mm	3266 [4600]	3266 [4600]	3356 [4600]
Height open [cabinet]	mm	2103 [2280]	2103 [2280]	2103 [2280]
Weight (empty) open [cabinet]	kg	3270 [4154]	3270 [4154]	3400 [4284]



GROUP		GVP 515	GVP 565	GVP 660
Stand By Power	kVA (kW) A	515,0[412,0]744,2	565,0[452,0]816,5	660,0 [528,0] 953,8
Prime Power	kVA (kW) A	498,2[374,5]676,6	513,6[410,9]742,2	600,0 [480,0] 867,1
Continuous Power	kVA (kW) A	328,0[262,4]474,0	360,0[288,0]520,2	420,0 [336,0] 606,9
Power Factor	CosQ	0,8	0,8	0,8
Frequency	Hz	50	50	50
Voltage	V	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500
<b>ENGINE</b>				
Brand		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TAD 1640 GE	TAD 1641 GE	TAD 1642 GE
Standby Engine Power	kW	440,0	484,0	565,0
Prime Engine Power	kW	431,0	473,0	554,0
Energy in Fuel	kW	1154,0	1154,0	1361,0
Gross Heat to Power	kW	484,0	484,0	565,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line
Emission		EU Stage 2	EU Stage 2	EU Stage 2
Aspiration		Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & CAC
Governing Type		Electronic	Electronic	Electronic
Cylinder volume	L	16,12	16,12	16,12
Bore and Stroke	mm	144 x 165	144 x 165	144 x 165
Compression system		Direct Injection	Direct Injection	Direct Injection
Compression ratio		16.5:1	16.5:1	16.5:1
Electrical system	V	24	24	24
Fuel consumption at 110% of prime power	l/h	106,5	119,3	139,3
Fuel consumption at 100% of prime power	l/h	95,9	107,4	125,4
Fuel consumption at 75% of prime power	l/h	71,2	79,8	93,2
Fuel consumption at 50% of prime power	l/h	49,1	55,0	64,2
Fuel tank capacity (cabinet)	L	673 [400]	1041 [530]	1041 [531]
<b>ALTERNATOR</b>				
Brand		GENPOWER	GENPOWER	GENPOWER
Model		315MXA	315L	355M
Continuous Output Power	400 / 231 kVA	468,0	514,0	600,0
Continuous Output Power	400 / 231 kW	374,0	411,0	480,0
Over-speed capability	Speed/rpm	2250	2250	2250
Insulation class		H	H	H
Protection class		IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1
Number of terminals		12	12	12
Altitude	m	1000	1000	1000
<b>GENERATOR DIMENSIONS</b>				
Width open [cabinet]	mm	1200 [1600]	1300 [1900]	1300 [1900]
Length open [cabinet]	mm	3356 [4600]	3479 [5000]	3555 [5000]
Height open [cabinet]	mm	2103 [2280]	2418 [2300]	2418 [2300]
Weight (empty) open [cabinet]	kg	3400 [4284]	3842 [5452]	3930 [5540]



GROUP		GVP 720	GVP 770	GVP 825
Stand By Power	kVA (kW) A	720,0 [576,0] 1.040,5	770,0[616,0]1.112,7	835,0 [668,0] 1206,6
Prime Power	kVA (kW) A	654,5 [523,6] 945,9	700,0 [560,0]1.011,6	759,0 [607,2] 1096,8
Continuous Power	kVA (kW) A	458,2 [366,5] 662,1	490,0 [392,0] 708,1	625,0 [500,0] 903,2
Power Factor	CosQ	0,8	0,8	0,8
Frequency	Hz	50	50	50
Voltage	V	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500
<b>ENGINE</b>				
Brand		VOLVO PENTA	VOLVO PENTA	VOLVO PENTA
Model		TWD 1644 GE	TWD 1645 GE	TWD 1744GE
Standby Engine Power	kW	630,0	675,0	731,0
Prime Engine Power	kW	613,0	654,0	710,0
Energy in Fuel	kW	1550,0	1579,0	1750,0
Gross Heat to Power	kW	645,0	675,0	750,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line
Emission		EU Stage 2	EU Stage 2	EU Stage 2
Aspiration		Turbo Charge & CAC	Turbo Charge & CAC	Turbo Charge & WAC
Governing Type		Electronic	Electronic	ECM4 - Electronic
Cylinder volume	L	16,12	16,12	17,26
Bore and Stroke	mm	144 x 165	144 x 165	149 x 165
Compression system		Direct Injection	Direct Injection	Common Rail
Compression ratio		16.8:1	16.8:1	16.5:1
Electrical system	V	24	24	24
Fuel consumption at 110% of prime power	l/h	155,3	166,4	171,7
Fuel consumption at 100% of prime power	l/h	139,9	149,8	146,3
Fuel consumption at 75% of prime power	l/h	103,9	111,3	120,0
Fuel consumption at 50% of prime power	l/h	71,6	76,7	85,9
Fuel tank capacity (cabinet)	L	1041 [532]	1041 [533]	1041 [533]
<b>ALTERNATOR</b>				
Brand		GENPOWER	GENPOWER	GENPOWER
Model		355MI	355MX	355MXA
Continuous Output Power	400 / 231 kVA	659,0	700,0	750,0
Continuous Output Power	400 / 231 kW	527,0	560,0	600,0
Over-speed capability	Speed/rpm	2250	2250	2250
Insulation class		H	H	H
Protection class		IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1
Number of terminals		12	12	12
Altitude	m	1000	1000	1000
<b>GENERATOR DIMENSIONS</b>				
Width open [cabinet]	mm	1400 [1900]	1400 [1900]	1400 [1900]
Length open [cabinet]	mm	3629[5000]	3629[5000]	3629[5000]
Height open [cabinet]	mm	2453 [2300]	2511 [2300]	2511 [2300]
Weight (empty) open [cabinet]	kg	3985 [5595]	4385 [5995]	4485 [6095]





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