

GCC



ALBAYRAQ
ALMAASY

SERIES

CUMMINS ENGINE



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GROUP		GCC 28	GCC 38	GCC 115	GCC 155	GCC 175
Stand By Power	kVA (kWe) A	28,0 [22,4] 40,5	38,0 [30,4] 54,9	115,0 [92,0] 166,2	155,0 [124,0] 224,0	175,0 [140,0] 252,9
Prime Power	kVA (kWe) A	25,5 [20,4] 36,8	34,5 [27,6] 49,9	104,5 [83,6] 151,1	140,9 [112,7] 203,6	159,1 [127,3] 229,9
Continuous Power	kVA (kWe) A	17,8 [14,3] 25,7	24,2 [19,3] 34,9	73,2 [58,5] 105,8	98,6 [78,9] 142,5	11,4 [89,1] 160,9
Power Factor	CosQ	0,8	0,8	0,8	0,8	0,8
Frequency	Hz	50	50	50	50	50
Voltage	V	231/400	231/400	231/400	231/400	231/400
Speed	Speed/rpm	1500	1500	1500	1500	1500
ENGINE						
Brand		CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		X2.5G2	X3.3G1	X3.3G1	6BTAA5.9G6	6BTAA5.9G7
Standby Gross Engine Power	kW	27,0	36,0	102,0	145,0	160,0
Prime Gross Engine Power	kW	24,5	32,7	92,7	131,8	145,5
Standby Net Engine Power	kW	26,0	35,1	98,0	141,0	156,0
Prime Net Engine Power	kW	23,6	31,9	89,1	128,2	141,8
Configuration		Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line
Emission		Non-Regulated	Non-Regulated	Non-Regulated	Non-Regulated	Non-Regulated
Aspiration		Naturally	Naturally	Turbo & AC	Turbo & AC	Turbo & AC
Governing Type		Mechanical/Electrical	Mechanical/Electrical	Electrical	Electrical	Electrical
Cylinder volume	L	2,5	3,3	5,9	5,9	5,9
Bore and Stroke	mm	91.7 x 127	91.4 x 127	102 x 120	102 x 120	102 x 120
Compression system		Direct Injection	Direct Injection	Direct Injection	Direct Injection	Direct Injection
Compression ratio		18.5:1	18.5:1	17.6:1	16.5:1	16.5:1
Electrical system	V	12	12	12	12	24
Fuel consumption at 110% of prime power	l/h	6,2	8,4	23,5	33,8	37,4
Fuel consumption at 100% of prime power	l/h	5,7	7,7	21,4	30,8	34,0
Fuel consumption at 75% of prime power	l/h	4,7	6,3	17,6	25,4	28,1
Fuel consumption at 50% of prime power	l/h	3,1	4,2	11,8	16,9	18,7
Fuel tank capacity (cabinet)	L	58 [40]	58 [40]	58 [40]	190 [376]	256 [376]
ALTERNATOR						
Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		180M1	180MX	225LX	270S1	270S2
Continuous Output Power	400 / 231 kva	27,0	35,0	109,0	141,0	159,0
Continuous Output Power	400 / 231 kw	21,6	28,0	87,2	112,8	127,2
Over-speed capability	d/dak	2250	2250	2250	2250	2250
Insulation class		H	H	H	H	H
Protection class		IP-23	IP-23	IP-23	IP-23	IP-23
Voltage regulation	%	±%1	±%1	±%1	±%1	±%1
Number of terminals		12	12	12	12	12
Altitude	m	1000	1000	1000	1000	1000
GENERATOR DIMENSIONS						
Width open [cabinet]	mm	619 [942]	619 [942]	700 [1042]	800 [1153]	900 [1153]
Length open [cabinet]	mm	1400 [1916]	1400 [1916]	1900 [2615]	2150 [2971]	2400 [2971]
Height open [cabinet]	mm	1329 [1444]	1329 [1444]	1562 [1766]	1549 [2027]	1549 [2027]
Weight (empty) open [cabinet]	kg	4667 [5960]	4667 [5960]	7120 [11500]	7540 [11870]	1317 [1670]



GROUP		GCC 235	GCC 330	GCC 350	GCC 450
Stand By Power	kVA (kWe) A	235,0 [188,0] 339,6	330,0 [264,0] 476,9	350,0 [280,0] 505,8	450,0 [360,0] 650,3
Prime Power	kVA (kWe) A	213,6 [170,9] 308,7	300,0 [240,0] 433,5	318,2 [254,5] 459,8	409,1 [327,3] 591,2
Continuous Power	kVA (kWe) A	149,5 [119,6] 216,1	210,0 [168,0] 303,5	222,7 [178,2] 321,9	286,4 [229,1] 413,8
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
ENGINE					
Brand		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		QSB7G5	QSL9G5	6LTAA9.5G1	QSG12G2
Standby Gross Engine Power	kW	213,0	310,0	320,0	407,0
Prime Gross Engine Power	kW	193,6	281,8	290,9	370,0
Standby Net Engine Power	kW	197,0	297,0	300,0	385,0
Prime Net Engine Power	kW	179,1	270,0	272,7	350,0
Configuration		Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line
Emission		Non-Regulated	Non-Regulated	Non-Regulated	Non-Regulated
Aspiration		Turbo & AC	Turbo & AC	Turbo & AC	Turbo & AC
Governing Type		Electronical	Electronical	Electronical	Electronical
Cylinder volume	L	6,69	6,69	9,5	9,5
Bore and Stroke	mm	107 x 124	114 x 145	116 x 148	137 x 169
Compression system		Direct Injection	Direct Injection	Direct Injection	Direct Injection
Compression ratio		16.8:1	16.8:1	16,5:1	17:1
Electrical system	V	24	24	24	24
Fuel consumption at 110% of prime power	l/h	43,3	65,3	66,0	84,7
Fuel consumption at 100% of prime power	l/h	39,4	59,4	60,0	77,0
Fuel consumption at 75% of prime power	l/h	32,5	49,0	49,5	63,5
Fuel consumption at 50% of prime power	l/h	21,7	32,7	33,0	42,4
Fuel tank capacity (cabinet)	L	256 [376]	475 [673]	475 [673]	475 [673]
ALTERNATOR					
Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		270M1	270LXA	270LXA	315M
Continuous Output Power	400 / 231 kva	214,0	318,0	318,0	409,0
Continuous Output Power	400 / 231 kw	171,2	254,4	254,4	327,2
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	900 [1153]	1100 [1179]	1100 [1179]	1100 [1179]
Length open [cabinet]	mm	2400 [2971]	3095 [3921]	3095 [3921]	3254 [3921]
Height open [cabinet]	mm	1549 [2027]	1782 [2498]	1782 [2498]	1782 [2498]
Weight (empty) open [cabinet]	kg	1450 [1810]	2163 [2600]	2163 [2600]	2353 [2790]



GROUP		GCC 550	GCC 825	GCC 900	GCC 1100
Stand By Power	kVA (kWe) A	565,0 [452,0] 816,5	825,0 [660,0] 1.192,2	900,0 [720,0] 1.300,6	1.100,0[880,0]1.589,6
Prime Power	kVA (kWe) A	513,6 [410,9] 742,2	750,0 [600,0] 1.083,8	818,2 [654,5] 1.182,3	1.000,0[800,0]1.445,1
Continuous Power	kVA (kWe) A	359,5 [287,6] 519,6	525,0 [420,0] 758,7	572,7 [458,2] 827,6	700,0 [560,0]1.011,6
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		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		QSX15G8	VTA28G6	QSK23G3	QST30G4
Standby Gross Engine Power	kW	500,0	733,0	768,0	970,0
Prime Gross Engine Power	kW	454,5	666,4	698,2	881,8
Standby Net Engine Power	kW	477,0	705,0	746,0	929,0
Prime Net Engine Power	kW	433,6	640,9	678,2	844,5
Configuration		Vertical, in line	Vertical, in line	Vertical, in line	50°Vee
Emission		Non-Regulated	Non-Regulated	Non-Regulated	Vertical, in line
Aspiration		Turbo & AC	Turbo & AC	Turbo & AC	Non-Regulated
Governing Type		Electronical	Electronical	Electronical	Turbo & AC
Cylinder volume	L	9,5	28	23,15	30,48
Bore and Stroke	mm	137 x 169	140 x 152	170 x 170	140 x 165
Compression system		Direct Injection	Direct Injection	Direct Injection	Electronical
Compression ratio		17:1	13:1	16:1	14:1
Electrical system	V	24	24	24	24
Fuel consumption at 110% of prime power	l/h	104,9	141,0	141,0	149,2
Fuel consumption at 100% of prime power	l/h	95,4	128,2	128,2	135,6
Fuel consumption at 75% of prime power	l/h	78,7	105,8	105,8	111,9
Fuel consumption at 50% of prime power	l/h	52,5	70,5	70,5	74,6
Fuel tank capacity (cabinet)	L	475 [673]	1193 [530]	1193 [530]	1193 [530]
ALTERNATOR					
Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		315L	355MXA	355LX	400M
Continuous Output Power	400 / 231 kva	514,0	750,0	850,0	1000,0
Continuous Output Power	400 / 231 kw	411,2	600,0	680,0	800,0
Over-speed capability	d/dak	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	6
Altitude	m	1000	1000	1000	1000
GENERATOR DIMENSIONS					
Width open [cabinet]	mm	1100 [1179]	1400 [1942]	1400 [1942]	1400 [1942]
Length open [cabinet]	mm	3254 [3921]	4000 [5166]	4000 [5166]	4000 [5166]
Height open [cabinet]	mm	1782 [2498]	2188 [2920]	2188 [2920]	2188 [2920]
Weight (empty) open [cabinet]	kg	2379 [2970]	4240 [5530]	4358 [5650]	4667 [5960]



GROUP		GCC 1130	GCC 1400	GCC 1650	GCC 2250
Stand By Power	kVA (kWe) A	1.130,0[904,0] 1.632,9	1.400,0[1.120,0]2.023,1	1.650,0[1.320,0]2.384,4	2.250,0[1.800,0]3.251,4
Prime Power	kVA (kWe) A	1.027,3[821,8]1.484,5	1.272,7[1.018,2]1.839,2	1.500,0[1.200,0]2.167,6	2.045,5[1.636,4]2.955,9
Continuous Power	kVA (kWe) A	719,1 [575,3]1.039,1	890,9[712,7]1.287,4	1.050,0[840,0]1.517,3	1.431,8 [1.145,5]2.069,1
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		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		KTA38G5	KTA50G3	KTA50G8	QSK60G4
Standby Gross Engine Power	kW	970,0	1227,0	1429,0	1915,0
Prime Gross Engine Power	kW	881,8	1115,5	1299,1	1740,9
Standby Net Engine Power	kW	940,0	1192,0	1387,0	1861,0
Prime Net Engine Power	kW	854,5	1083,6	1260,9	1691,8
Configuration		50°Vee	60°Vee	60°Vee	60°Vee
Emission		Vertical, in line	Vertical, in line	Vertical, in line	Vertical, in line
Aspiration		Non-Regulated	Non-Regulated	Non-Regulated	Non-Regulated
Governing Type		Turbo & AC	Turbo & AC	Turbo & AC	Turbo & AC
Cylinder volume	L	37,8	50,3	50,3	60,2
Bore and Stroke	mm	159 x 159	159 x 159	159 x 159	159 x 190
Compression system		Electronical	Electronical	Electronical	Electronical
Compression ratio		13.9:1	13.9:1	14.9:1	14.5:1
Electrical system	V	24	24	24	24
Fuel consumption at 110% of prime power	l/h	185,8	188,0	238,4	277,4
Fuel consumption at 100% of prime power	l/h	168,9	170,9	216,7	252,2
Fuel consumption at 75% of prime power	l/h	139,4	141,0	178,8	208,1
Fuel consumption at 50% of prime power	l/h	92,9	94,0	119,2	138,7
Fuel tank capacity (cabinet)	L	1193 [530]	2250 [2250]	2500 [2500]	3500 [3500]
ALTERNATOR					
Brand		GENPOWER	GENPOWER	GENPOWER	GENPOWER
Model		400M	400L	400L2	450M
Continuous Output Power	400 / 231 kva	1000,0	1273,0	1500,0	2045,0
Continuous Output Power	400 / 231 kw	800,0	1018,4	1200,0	1636,0
Over-speed capability	d/dak	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	±%0.5
Number of terminals		6	6	6	12
Altitude	m	1000	1000	1000	1000
GENERATOR DIMENSIONS					
Width open [cabinet]	mm	1400 [1942]	2000 [2390]	2465 [2418]	2600 [2800]
Length open [cabinet]	mm	4000 [5166]	4500 [6769]	4500 [7885]	5700 [9000]
Height open [cabinet]	mm	2188 [2920]	2310 [3156]	2463 [3308]	2643 [2900]
Weight (empty) open [cabinet]	kg	4667 [5960]	7120 [11500]	7540 [11870]	13570 [18590]



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