

GORAN

GENERATOR

SERIES

Perkins Powered
Diesel Generator



Engine

- Perkins diesel engine
- Revolution: 1500 rpm
- Water cooled
- Tropical: radiator

Alternator

- Synchro type brushless
- Automatic voltage regulation (AVR)
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 VAC
- Voltage: 208/120 V - 400/277 V three phase
- Protection class: IP23
- Frequency: 50 Hz

Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker -3pole
- 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 moving
- Thermally insulated exhaust system

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TECHNICAL SPECIFICATION GENERATOR SET

GROUP		GGP 10	GGP 15	GGP 23	GGP 33	GGP 50	GGP 66	GGP 71	GGP 88	GGP 112	GGP 150	GGP 165
Stand-by Power	kVA (kWe)	10 (8)	15 (12)	23 (18,4)	33 (26,4)	50 (40)	66 (52,8)	71 (57,2)	88 (70,4)	112 (89,6)	150 (120)	165 (132)
Prime Power	kVA (kWe)	9 (7,2)	14 (11,2)	21 (16,8)	30 (24)	45 (36)	60 (48)	65(52)	80 (64)	102 (81,6)	136 (108,8)	150 (120)
Power Factor	cφs	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		PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Model		403A 11G	403A 15G	404A 22G	1103A 33G	1103A 33TG1	1103A 33TG2	1104A 44TG1	1104A 44TG2	1104C 44TAG2	1106A-70TG1	1106A70-TAG2
Speed	(RPM)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Stand-by Power	hp (kw)	12,9 (9,5)	18,3 (13,5)	28 (20,6)	41,6 (31)	62,4 (46,5)	81,1 (60,5)	88 (65,6)	108,2 (80,7)	138 (103)	182 (135,8)	206 (153,6)
Prime Power	hp (kw)	11,7 (8,6)	16,5 (12,2)	25,4 (18,7)	37,8 (28,2)	56,6 (42,2)	73,8 (55)	79,9 (59,6)	98,4 (73,4)	125,5 (93,6)	164,5 (122,7)	182,4 (136)
Number of Cylinder		3	3	4	3	3	3	4	4	4	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	Turbo	Turbo	Turbo	Turbo	Turbo
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		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic	Electronic	Electronic
Displacement	(lt)	1,13	1,49	2,21	3,3	3,3	3,3	4,4	4,4	4,41	7,01	7,01
Bore and Stroke	(mm)	77 x 81	84 x 90	84 x 100	105 x 127	105 x 127	105 x 127	105 x 127	105 x 127	105 x 127	105 x 135	105 x 135
Electric System		23:01	22,5 : 119,25	23,3: 1	19,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	1 18,2 : 1	18,2 : 1	16:01
Electric System		12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Fuel Consumption %50 Loaded	(lt/h)	1,5	2,1	2,9	3,9	5,7	7,2	8,0	9,7	11,2	15,9	16,4
Fuel Consumption %75 Loaded	(lt/h)	2,0	2,8	4,0	5,4	8,2	10,4	11,2	14,0	17,1	22,7	24,7
Fuel Consumption %100 Loaded	(lt/h)	2,6	3,7	5,4	7,1	10,7	13,9	14,8	18,7	22,6	30,2	33,4
Fuel Tank Capacity, w/o Canopy (Canopy)	(lt)	58 (146)	58 (146)	58 (146)	126 (179)	126 (179)	126 (179)	165 (274)	165 (274)	165 (358)	263 (318)	263 (318)
ALTERNATOR												
MAKE		Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford
Model		SOL1-D1	SOL1-L1	SOL2-G1	SOL2-P1	SIL2-N1	SIL2-Y1	SIL2-Y1	UCI.224G1	UCI.274C1	UCI.274E1	UCI.274F1
Cont. Power	400 V - kVA	7,5	12,5	20	30	45	62,5	62,5	85	100	140	160
Insulation Resistance	2U+1000V	1800	1800	1800	1800	1800	1800	1808	1800	1800	1800	1800
Insulation Class		H	H	H	H	H	H	H	H	H	H	H
Ingress Protection Rating		IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23
Voltage		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltage Regulation		±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1
DIMENSIONS												
Width, w/o Canopy (Canopy)	(mm)	900 (900)	900(900)	950(950)	950(950)	1000(1000)	1000(1000)	1000 (1000)	1100(1100)	1100(1100)	1100(1100)	1100(1100)
Length, w/o Canopy (Canopy)	(mm)	1230 (1680)	1230(1680)	1500(2000)	1600(2100)	1750(2250)	1750(2250)	1900 (2370)	2070(2650)	2070(2650)	2470(2950)	2470(2950)
Height, w/o Canopy (Canopy)	(mm)	1450 (1450)	1450(1450)	1450(1450)	1690(1690)	1690(1690)	1690(1690)	1710 (1710)	1890(1890)	1890(1890)	1970(1970)	1970(1970)
Weight, w/o Canopy (Canopy)	(kg)	433 (643)	446(656)	517(727)	708(948)	803(1083)	855(1135)	900 (1180)	989(1299)	987(1297)	1472(1807)	1749(2084)

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Group		GGP 200	GGP 220	GGP 250	GGP 275	GGP 330	GGP 400	GGP 450	GGP 500	GGP 550	GGP 660	GGP 700
Stand-by Power	kVA (kWe)	200 (163)	200 (176)	250 (200)	275 (220)	300 (240)	400 (320)	450 (360)	500 (400)	550 (440)	660 (528)	700 (576)
Prime Power	kVA (kWe)	185 (148)	200 (160)	230 (184)	250 (200)	45 (36)	364 (291)	409 (327)	455 (364)	500 (400)	600 (480)	655 (524)
Power Factor	cos	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		PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Model		1106A70-TAG3	1106A 70TAG4	1506A-E88TAG2	1506A-E88TAG3	1506A-E88TAG5	2206A E13TAG2	2206A E13TAG3	2506A E15TAG1	2506A E15TAG2	2806A E18TAG1A	2806A E18TAG2
Speed	(RPM)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Stand-by Power	hp (kw)	241,1 (179,8)	263 (196,3)	298 (222)	327 (244)	393 (293)	493 (367)	554 (413)	605 (451)	664 (495)	795 (593)	842 (628)
Prime Power	hp (kw)	219,7 (163,9)	240 (178,9)	274 (204)	298 (222)	358 (267)	435 (324)	493 (368)	552 (412)	605 (451)	724 (540)	783 (584)
Number of Cylinder		6	6	6	6	6	6	6	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		Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo
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		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Displacement	(lt)	7,01	7,01	8,8	8,8	8,8	12,5	12,5	15,2	15,2	18,1	18,1
Bore and Stroke	(mm)	105 x 135	105 x 135	112 x 149	112 x 149	112 x 149	130 x 157	130 x 157	137 x 171	137 x 171	145 x 183	145 x 183
Electric System		16:01	16:01	16,1 : 1	16,1 : 1	16,1 : 1	16,3 : 1	16,3 : 1	16:01	16:01	14,5 : 1	14,5 : 1
Electric System		12 VDC	12 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	(lt/h)	20,1	23,0	28,0	31,0	33,0	36,0	42,0	50,0	53,0	61,0	66,0
Fuel Consumption %75 Loaded	(lt/h)	31,8	35,0	40,0	44,0	48,0	53,0	62,0	72,0	76,0	90,0	97,0
Fuel Consumption %100 Loaded	(lt/h)	41,6	45,0	54,0	59,0	65,0	70,0	81,0	95,0	100,0	132,0	132,0
Fuel Tank Capacity, w/o Canopy (Canopy)	(lt)	378 (503)	378 (503)	378 (503)	477 (503)	680 (468)	1082 (399)	1082 (399)	1082 (399)	1082 (399)	1382 (527)	1382 (527)
ALTERNATOR												
Make		Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford
Model		UCI.274G1	UCI.274H1	UCI.274J1	UCD.274K1	S4LID-D41	S4LID-E41	S4LID-F41	S4LID-G41	HCI.544C1	HCI.544E1	HCI.544F1
Cont. Power	400 V - kVA	182	200	230	250	310	360	415	450	500	670	670
Insulation Resistance	2U+1000V	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Insulation Class		H	H	H	H	H	H	H	H	H	H	H
Ingress Protection Rating		IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23
Voltage		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltage Regulation		±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1
DIMENSIONS												
Width, w/o Canopy (Canopy)	(mm)	1150(1150)	1150(1150)	1300(1300)	1300(1300)	1300(1300)	1450(1450)	1450(1450)	1700(1700)	1700(1700)	1700(1700)	1700(1700)
Length, w/o Canopy (Canopy)	(mm)	2800(3450)	2800(3450)	2970(3650)	2970(3650)	2970(3650)	3400(4000)	3400(4000)	3900(4900)	3900(4900)	3700(4900)	3700(4900)
Height, w/o Canopy (Canopy)	(mm)	2170(2170)	2170(2170)	2300(2300)	2300(2300)	2300(2300)	2630(2630)	2630(2630)	2720(2720)	2720(2720)	2850(2850)	2850(2850)
Weight, w/o Canopy (Canopy)	(kg)	1648(2123)	1759(2234)	2284(2867)	2324(2907)	2459(3042)	3071(3725)	3171(2825)	3510(4510)	3597(4597)	4367(5292)	4500(5425)

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Group		GGP 830	GGP 900	GGP 1000	GGP 1125	GG9 1250	GGP 1385	GGP 1500	GGP 1660	GGP 1880	GGP 2000	GGP 2500
Stand-by Power	kVA (kWe)	830 (660)	900 (720)	1000 (800)	1125 (1000)	1250 (1100)	1385 (1108)	1500 (1200)	1660 (1325)	1880 (1504)	2000 (1600)	2500 (2000)
Prime Power	kVA (kWe)	750 (600)	818 (654)	909 (727)	1023 (818)	1136 (909)	1259 (1007)	1364 (1091)	1505 (1204)	1709 (1367)	1818 (1454)	2273 (1818)
Power Factor	cφs	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		PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Model		4006 23TAG2A	4006 23TAG3A	4008 TAG1A	4008 TAG2A	4008 30TAG3	4012 46TWG2A	4012 46TWG3A	4012-46TAG2A	4012-46TAG3A	4016 61TRG1	4016 61TRG3
Speed	(RPM)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Stand-by Power	hp (kw)	967 (721)	1054 (786)	1183 (882)	1290 (962)	1408 (1055)	1563 (1166)	1694 (1263)	1870 (1395)	2095 (1563)	2257 (1684)	2791 (2083)
Prime Power	hp (kw)	882 (658)	945 (705)	1080 (805)	1206 (899)	1270 (947)	1414 (1055)	1540 (1149)	1700 (1267)	1905 (1421)	2088 (1558)	2513 (1875)
Number of Cylinder		6	8	8	8	8	12	12	12	12	16	16
Cylinder Arrangement		In-Line	In-Line	In-Line	In-Line	In-Line	12 V Type	12 V Type	12 V Type	12 V Type	16 V Type	16 V Type
Cycle		4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke	4 Stroke
Aspiration		Turbo AAC*	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo
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		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Displacement	(lt)	22,92	22,92	30,56	30,56	30,56	45,84	45,84	45,84	45,84	61,12	61,12
Bore and Stroke	(mm)	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190	160 x 190
Electric System		13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1	13,6 : 1
Electric System		24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Fuel Consumption %50 Loaded	(lt/h)	83,0	90,0	98,0	109,0	120,0	143,0	151,0	149,0	187,0	196,0	235,0
Fuel Consumption %75 Loaded	(lt/h)	121,0	130,0	143,0	163,0	188,0	196,0	213,0	226,0	275,0	300,0	346,0
Fuel Consumption %100 Loaded	(lt/h)	157,0	172,0	195,0	226,0	244,0	259,0	283,0	296,0	350,0	385,0	473,0
Fuel Tank Capacity, w/o Canopy (Canopy)	(lt)	1500	1500	1500	2250	2250	2250	2250	2500	3000	3500	3500
ALTERNATOR												
Make		Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford
Model		HCI.634G1	HCI.634G1	HCI.634H1	HCI.634J1	HCI.634K1	PI.734A1	PI.734B1	PI.734C1	PI.734E1	PI.734E1	PI.734H1
Cont. Power	400 V - kVA	810	810	940	1030	1135	1260	1400	1550	1900	1900	2325
Insulation Resistance	2U+1000V	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Insulation Class		H	H	H	H	H	H	H	H	H	H	H
Ingress Protection Rating		IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23	IP-23
Voltage		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltage Regulation		±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1	±%1
DIMENSIONS												
Width, w/o Canopy (Canopy)	(mm)	2200(2200)	2200(2200)	2200(2200)	2200(2200)	2200(2200)	2250(2250)	2250(2250)	2250(2250)	2400(N/A)	2400(N/A)	2400(N/A)
Length, w/o Canopy (Canopy)	(mm)	5300(6000)	5300(6000)	5300(6000)	5300(6000)	5300(6000)	5500(6500)	5500(6500)	5500(6500)	N/A	N/A	N/A
Height, w/o Canopy (Canopy)	(mm)	3100(2650)	3100(2650)	3100(2650)	3100(2650)	3100(2650)	2800(2800)	2800(2800)	2800(2800)	10245	12298	12578
Weight, w/o Canopy (Canopy)	(kg)	6555(8235)	6445(8345)	8505(10655)	8570(10720)	8870(10920)	8260(N/A)	9676(N/A)	9675(N/A)	N/A	N/A	N/A

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