

2.5 kVA

10 kVA

2264 kVA

GPR

SERIES

Diesel
PERKINS
Engine

GPR Standard Specifications

Engine

- PERKINS 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, 120% for 2 minutes
- Short circuit resistance: 300% for 10 seconds
- Insulation class: H
- Insulation resistance: 1800V AC
- Voltage: 231/400V AC three phase
- Voltage regulation : $\pm 0.5\%$
- Protection class: IP23
- Frequency: 50 Hz

Manuel Control Panel

- Microprocessed Electronic Control Panel (GPK 510)
 - Ammeter, AC
 - Voltmeter, AC
 - Frequencymeter
 - Speed tachometer (RPM)
 - Kilowatt meter
 - Cos ϕ meter
 - Battery Voltmeter, DC
 - Oil Pressure Gauge
 - Water Temperature Gauge
 - Service time totalizer meter
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

Automatic Control Panel

- Microprocessed Electronic Control Panel (GPK 500)
 - Ammeter, AC
 - Voltmeter, AC
 - Frequencymeter
 - Speed tachometer
 - Kilowatt meter
 - Cos ϕ meter
 - Battery Voltmeter, DC
 - Oil Pressure Gauge
 - Water Temperature Gauge
 - Service time totalizer meter
- Protection fuses
- Battery charger
- Power Transfer Contactors (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



GPR

SERIES

Diesel
PERKINS
Engine



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

Model	GPR 10	GPR 15	GPR 23	GPR 33	GPR 50	GPR 66	GPR 71	GPR 88	GPR 110	GPR 150	GPR 229
Stand-by Power / kVA (kW)	10 (8)	15 (12)	23 (18,4)	33 (26,4)	50 (40)	66 (52,8)	66 (53)	88 (70,4)	110 (88)	150 (120)	223 (178)
Prime Power / kVA (kW)	9 (7,2)	13 (10,4)	20 (16)	30 (24)	45 (36)	60 (48)	60 (48)	80 (64)	100 (80)	135 (108)	200 (160)
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	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Model	403C-11G	403C-15G	404C-22G	1103A-33G	1103A-33TG1	1103A-33TG2	1104A-44TG1	1104A-44TG2	1104C-44TAG2	1006 TAG	1306C E87 TAG3
Rpm / rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Prime Power / kW (HP)	8,6 (11,5)	12,2(16,4)	18,7 (25,1)	28,2 (37,8)	41,3 (55,4)	53,8 (72,1)	58,4 (79,4)	71,9 (96,4)	89 (121)	125 (167,5)	180 (243)
Stand-by Power / kW (HP)	9,5 (12,7)	13,5 (18,1)	20,6 (27,6)	31 (41,6)	45,6 (61,2)	59,3 (79,5)	64,3 (87,4)	79,1 (106,1)	98 (133)	137,5 (184,5)	199 (267)
Number of Cylinder	3	3	4	3	3	3	4	4	4	6	6
Cylinder Combination	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line
Air Indication System	Natural	Natural	Natural	Natural	Turbo Charged	Turbo Charged	Turbo Charged	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 Type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic	Electronic
Cylinder Displacement / lt	1.131	1.496	2.216	3.3	3.3	3.3	4.4	4.4	4.4	5.99	8.7
Cylinder Bore / Stroke / mm	77 / 81	84 / 90	84 / 100	105 / 127	105 / 127	105 / 127	105 / 127	105 / 127	105 / 127	100 / 127	116,6 / 135,9
Compression Ratio	23 : 1	22,5 : 1	23,3 : 1	19,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	17,25 : 1	18,2 : 1	17 : 1	16,9 : 1
Electric System	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	24 VDC
Fuel Consumption %50 Loaded / lt/h	1.5	2.1	2.9	3.9	5.7	7.3	8	9.7	11.2	16.5	24
Fuel Consumption %75 Loaded / lt/h	2.0	2.8	4	5.4	8.2	10.5	11.2	14	17.1	24.1	35
Fuel Consumption %100 Loaded / lt/h	2.6	3.7	5.4	7.1	10.7	14.1	14.8	18.7	22.6	31.5	45.2
Fuel Tank Capacity / lt	100	100	130	130	130	130	130	260	260	530	530

Alternator

Make	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER
Model	LSA 37 M6	LSA 37 M7	LSA 42.2 S5	LSA 42.2 L9	LSA 43.2 S25	LSA 43.2 M45	LSA 43.2 M45	LSA 43.2 L8	LSA 44.2 VS45	LSA 44.2 S75	LSA 46.2 M5
Type	Synchron.Brushless										
Prime Power / kVA (kW)	9 (7,2)	13 (10,4)	20 (16)	31,5 (25,2)	45 (36)	60 (48)	60 (48)	80 (64)	105 (84)	135 (108)	200 (160)
Stand-by Power / kVA (kW)	10 (8)	14,5 (11,6)	25 (20)	35 (27,8)	52 (42)	66 (53)	66 (53)	88 (70)	116 (93)	150 (120)	223 (178)
Overloaded	For 1 hour %110 in 12 hours, for 2 minutes % 120										
Insulation Resistance / 2U+1000V	Minimum 1800 Volt										
Short Circuit Current	For 10 seconds % 300										
Isolation Class	H	H	H	H	H	H	H	H	H	H	H
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
Tolerance Of Voltage	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5

Dimensions

Width w/o Canopy (w/canopy) / mm	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	900 (900)	1100 (1100)	1100 (1100)	1200 (1200)	1200 (1200)
Length w/o Canopy (w/canopy) / mm	1450 (1850)	1450 (1850)	1800 (2300)	1800 (2300)	1800 (2300)	1800 (2300)	1800 (2300)	2100 (2800)	2100 (2800)	2800 (3800)	2800 (3800)
Height w/o Canopy (w/canopy) / mm	1370 (1450)	1370 (1450)	1420 (1720)	1420 (1720)	1420 (1720)	1420 (1720)	1420 (1720)	1650 (1830)	1650 (1830)	1650 (2220)	1719 (2220)
Weight w/o Canopy (w/canopy) / kg	357 (607)	576 (826)	590 (948)	792 (1120)	859 (1187)	892 (1250)	944 (1282)	942 (1460)	1552 (2235)	1602 (2342)	2105 (2745)

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

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GPR 250	GPR 275	GPR 350	GPR 400	GPR 450	GPR 500	GPR 550	GPR 650	GPR 700	GPR 800	GPR 900	GPR 935
250 (200)	275 (220)	341 (273)	400 (320)	450 (360)	500 (400)	550 (440)	650 (520)	700 (560)	800 (640)	880 (704)	935 (748)
228 (182)	250 (200)	305 (244)	355 (284)	405 (324)	455 (364)	500 (400)	591 (473)	650 (520)	725 (580)	800 (640)	849 (679)
0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
50	50	50	50	50	50	50	50	50	50	50	50

PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
1306C E87 TAG4	1306C E87 TAG6	2306C E14 TAG1A	2306C E14 TAG2	2306C E14 TAG3	2506A E15 TAG1	2506A E15 TAG2	2806C E18 TAG1A	2806A - E18TAG2	4006 - 23TAG2A	4006 - 23TAG3A	4008 TAG
1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
198 (265)	218 (291)	261 (350)	304 (408)	344 (461)	396 (531)	435 (583)	514 (689)	565 (768)	620 (831)	679 (911)	715 (959)
217 (291)	239 (320)	304 (408)	344 (461)	387 (519)	435 (583)	478 (641)	565 (758)	609 (828)	685 (919)	760 (1019)	787 (1055)
6	6	6	6	6	6	6	6	6	6	6	8
In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line	In-Line
Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *
Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
8.7	8.7	14.6	14.6	14.6	15.2	15.2	18.1	18.1	22.921	22.921	30.561
116,6 / 135,9	116,6 / 135,9	137 / 165	137 / 165	137 / 165	137 / 171	137 / 171	145 / 183	145 / 183	160 / 190	160 / 190	160 / 190
16,9 : 1	16,9 : 1	15,9 : 1	15,9 : 1	15,9 : 1	16 : 1	16 : 1	14,5 : 1	14,5 : 1	13,6 : 1	13,6 : 1	13,6 : 1
24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
26.1	24	32	41	43	50	53	63	66	83	90	85.5
37.5	36	45	56	58	72	76	96	97	121	130	128
48.5	45	61	70	81	95	100	129	132	157	172	170.9
530	530	650	650	650	850	850	850	850	1250 (External)	1250 (External)	1500 (External)

L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER	L. SOMER
LSA 46.2 L6	LSA 46.2 L6	LSA 46.2 VL12	LSA 47.2 VS2	LSA 47.2 S4	LSA 47.2 S5	LSA 47.2 M7	LSA 47.2 L9	LSA 49.1 S4	LSA 49.1 M6	LSA 49.1 M75	LSA 49.1 L9
Synchron,Brushless											
250 (200)	250 (200)	315 (252)	365 (292)	410 (328)	455 (364)	500 (400)	600 (480)	660 (528)	725 (580)	800 (640)	880 (704)
275 (220)	275 (220)	341 (273)	420 (336)	450 (360)	500 (400)	570 (456)	660 (528)	725 (580)	800 (640)	880 (704)	960 (768)
For 1 hour %110 in 12 hours, for 2 minutes % 120											
Minimum 1800 Volt											
For 10 seconds % 300											
H	H	H	H	H	H	H	H	H	H	H	H
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	231 / 400 V
± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5

1500 (1500)	1500 (1500)	1500 (1500)	1500 (1500)	1500 (1500)	1500 (1500)	1500 (1500)	1500 (1500)	2000 (2438)	2100 (2438)	2100 (2438)	2100 (2438)
3100 (4200)	3100 (4200)	3100 (4200)	3100 (4200)	3100 (4200)	3500 (4600)	3500 (4600)	3500 (4600)	3350 (8058)	3900 (6058)	3900 (6058)	3900 (6058)
1720 (2580)	1720 (2580)	1960 (2580)	1900 (2580)	1900 (2580)	2170 (2810)	2150 (2810)	2200 (2810)	2200 (2591)	2220 (2591)	2200 (2591)	2200 (2591)
2113 (3100)	2021 (3006)	3004 (4404)	3441 (4273)	3526 (4426)	3886 (4786)	4070 (5094)	4188 (5095)	5702 (7452)	6664 (8414)	7264 (9014)	8024 (9774)

GPR

SERIES

Diesel
PERKINS
Engine



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

Model	GPR 1000	GPR 1125	GPR 1385	GPR 1401	GPR 1500	GPR 1656	GPR 1875	GPR 1930	GPR 2030	GPR 2264
Stand-by Power / kVA (kW)	1000 (800)	1093 (874)	1387 (1110)	1401 (1121)	1500 (1200)	1656 (1325)	1875 (1500)	1928 (1543)	1980 (1584)	2200 (1760)
Prime Power / kVA (kW)	910 (728)	1022 (818)	1255 (1004)	1274 (1019)	1364 (1091)	1505 (1204)	1705 (1364)	1752 (1402)	1800 (1440)	2000 (1600)
Power Factor / cos Q	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

Engine

Make	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Model	4008 TAG1A	4008 TAG2A	4012 TWG2	4012 TAG	4012 TAG1A	4012 TAG2A	4012 - 46TAG3A	4016 TAG	4016 TAG1A	4016 TAG2A
Rpm / rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Prime Power / kW (HP)	762 (1022)	861 (1155)	1055 (1415)	1061 (1422)	1136 (1523)	1254 (1682)	1436 (1925)	1460 (1957)	1537 (2061)	1715 (2300)
Stand-by Power / kW (HP)	839 (1125)	920 (1251)	1166 (1564)	1168 (1566)	1250 (1676)	1380 (1851)	1579 (2117)	1607 (2154)	1690 (2266)	1886 (2529)
Number of Cylinder	8	8	12	12	12	12	12	16	16	16
Cylinder Combination	In-Line	In-Line	V - Type	V - Type	V - Type	V - Type	V - Type	V - Type	V - Type	V - Type
Air Indication System	Turbo AAC *	Turbo AAC *	Turbo WAC **	Turbo AAC *	Turbo AAC *	Turbo AAC *	Turbo AAC *	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
Governor Type	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Cylinder Displacement / lt	30.561	30.561	45.842	45.842	45.842	45.842	45.842	61.123	61.123	61.123
Cylinder Bore / Stroke / mm	160 / 190	160 / 190	160 / 190	160 / 190	160 / 190	160 / 190	160 / 190	160 / 190	160 / 190	160 / 190
Compression Ratio	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
Fuel Consumption %50 Loaded / lt/h	93.3	105	147	132.4	130	145	169	180	180	205
Fuel Consumption %75 Loaded / lt/h	135.9	155	195	194	197	219	260	265	270	309
Fuel Consumption %100 Loaded / lt/h	185.7	218	254	263	267.5	298	354	354	372	424
Fuel Tank Capacity / lt	1500 (External)	2250 (External)	2250 (External)	2250 (External)	2250 (External)	2500 (External)	3000 (External)	3000 (External)	3000 (External)	3500 (External)

Alternator

Make	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER	LEROY SOMER
Model	LSA 49.1 L10	LSA 50.1 S4	LSA 50.1 M7	LSA 50.1 M7	LSA 50.1 L8	LSA 50.1 VL10	LSA 51.2 S55	LSA 51.2 S55	LSA 51.2 S55	LSA 51.2 M60
Type	Synchron, Brushless									
Prime Power / kVA (kW)	910 (728)	1025 (820)	1325 (1060)	1325 (1060)	1425 (1140)	1580 (1264)	1800 (1440)	1800 (1440)	1800 (1440)	2000 (1600)
Stand-by Power / kVA (kW)	1000 (800)	1130 (904)	1460 (1168)	1460 (1168)	1570 (1256)	1740 (1392)	1980 (1584)	1980 (1584)	1980 (1584)	2200 (1760)
Overloaded	For 1 hour %110 in 12 hours, for 2 minutes % 120									
Insulation Resistance / 2U+1000V	Minimum 1800 Volt									
Short Circuit Current	For 10 seconds % 300									
Isolation Class	H	H	H	H	H	H	H	H	H	H
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
Tolerance Of Voltage	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5	± %0,5

Dimensions

Width w/o Canopy (w/canopy) / mm	2100 (2438)	2100 (2438)	1900 (2438)	1900 (2438)	2400 (2438)	2400 (2438)	2400 (2438)	3000 (2438)	3000 (2438)	3000 (2438)
Length w/o Canopy (w/canopy) / mm	4650 (6058)	4650 (6058)	4800 (9087)	4800 (9087)	5500 (9087)	5500 (9087)	5500 (12190)	6500 (12190)	6500 (12190)	6500 (12190)
Height w/o Canopy (w/canopy) / mm	2550 (2591)	2550 (2591)	2750 (2890)	2620 (2690)	2750 (2690)	3150 (2690)	2790 (2690)	3220 (2690)	3220 (2690)	3220 (2690)
Weight w/o Canopy (w/canopy) / kg	9303 (11053)	9608 (11358)	9722 (15220)	9752 (15320)	9802 (15500)	9922 (16120)	10698 (18962)	12145 (20409)	12345 (20609)	12640 (20904)

*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

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ISO 9001:2000
OHSAS 18001:1999
EN 14001:2004



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GENERATOR
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