

GPR SERIES PERKINS Powered Diesel Generator



TECHNICAL SPECIFICATION DIESEL GENERATOR SET

Group

Model	GPR 900	GPR 1000	GPR 1125	GPR 1385	GPR 1500	GPR 1600	GPR 1656	GPR 1880	GPR 2000	GPR 2030	GPR 2250	GPR 2263	GPR 2500	
Stand-By Power	kVA (kW)	900 (720)	1000 (800)	1125 (900)	1385 (1108)	1500 (1200)	1600 (1280)	1656 (1325)	1880 (1504)	2000 (1600)	2030 (1624)	2250 (1800)	2263 (1811)	2500 (2000)
Prime Power	kVA (kW)	810 (648)	910 (728)	1030 (824)	1260 (1008)	1400 (1120)	1550 (1240)	1550 (1240)	1710 (1368)	1900 (1520)	1900 (1520)	2080 (1664)	2080 (1664)	2200 (1760)
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	0,8	0,8
Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50	50	50

Engine

Make	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	
Model	4006 23TAG3A	4008 TAG1A	4008 TAG2A	4012 46TWG2A	4012 46TWG3A	4012 46TWG4A	4012 TAG2A	4012 TAG3A	4016 61TRG1	4016 TAG1	4016 61TRG2	4016 TAG2A	4016 61TRG3	
Speed	rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
Stand-By Power	kW (HP)	1019 (760)	1132 (844)	1270 (947)	1563 (1166)	1694 (1263)	1800 (1342)	1870 (1395)	2095 (1563)	2257 (1684)	2266 (1690)	2538 (1894)	2529 (1886)	2791 (2083)
Prime Power	kW (HP)	911 (679)	1029 (767)	1155 (861)	1414 (1055)	1540 (1149)	1682 (1254)	1700 (1267)	1905 (1421)	2088 (1558)	2061 (1537)	2257 (1684)	2300 (1715)	2513 (1875)
Number of Cylinder		6	8	12	12	12	12	12	12	16	16	16	16	16
Cylinder Arrangement		In-Line	In-Line	In-Line	60° V Type	60° V Type	60° V Type	60° V Type	60° V Type	60° V Type	60° V Type	60° V Type	60° V Type	60° 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	4 Stroke	4 Stroke
Aspiration		Turbo AAC*	Turbo AAC*	Turbo AAC*	Turbo WAC**	Turbo WAC**	Turbo WAC**	Turbo AAC*	Turbo AAC*	Turbo WAC**	Turbo AAC*	Turbo AAC*	Turbo WAC**	Turbo WAC**
Cooling System		Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Governor	lt	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Displacement	mm	22,921	30,561	30,561	45,842	45,842	45,842	45,842	61,123	61,123	61,123	61,123	61,123	61,123
Bore and Stroke		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	160 x 190	160 x 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	13,6 : 1	13,6 : 1	13,6 : 1
Electric System	lt/h	24 VDC	24 VDC	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	90	98	108	143	151	160	149	187	196	180	216	205	235
Fuel Consumption %75 Loaded	lt/h	130	143	160	196	213	233	226	275	300	270	337	309	346
Fuel Consumption %100 Loaded	lt	172	195	215	259	283	305	296	350	385	372	421	422	473
Fuel Tank Cap. w/o Canopy (Canopy)		1500	1500	1500	2250	2250	3000	3000	3000	3500	3500	3500	3500	3500

Alternator

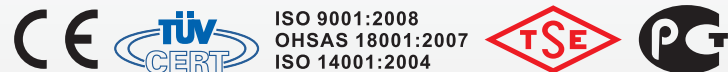
Type	Synchron, Brushless												
Over Loaded	For 1 hour %110 in 12 hours, for 2 minutes % 150												
Insulation Resistance	2U+1000V												
Short Circuit Resistance	Minimum 1800 Volt												
Insulation Class	For 10 seconds % 300												
Insulation Class	H	H	H	H	H	H	H	H	H	H	H	H	H
Voltage	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Voltage Regulation	± %0,5												

Dimensions

Width, w/o Canopy (Canopy)	mm	1710 (2438)	2100 (2438)	2040 (2438)	1900 (2438)	2200 (2438)	2300 (2438)	2300 (2438)	2300 (2438)	3200	3200	3200	3200	3200
Length, w/o Canopy (Canopy)	mm	4030 (6058)	4470 (6058)	4470 (6060)	4500 (9125)	4500 (9125)	4500 (9125)	4650 (9125)	4500 (9125)	12000	12000	12000	12000	12000
Height, w/o Canopy (Canopy)	mm	2250 (3000)	2400 (3000)	2400 (3000)	2450 (3300)	2400 (3300)	2450 (3300)	2400 (3710)	2400 (3300)	4500	4500	4500	4500	4500
Weight, w/o Canopy (Canopy)	kg	6370 (10470)	7640 (11740)	7820 (11920)	9340 (15864)	9697 (16221)	10385 (16920)	10385 (16920)	12036 (18600)	15695	15850	15750	15750	15750

* 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.

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.



2.5 kVA 10 kVA 2500 kVA

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GPR Standard Specifications

Engine

- PERKINS Heavy duty diesel engine
- Revolution: 1500 rpm
- Water cooled
- Tropical type radiator

Alternator

- VDE 0530 & IEC 34-1 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 VAC
- Voltage regulation: ± 0,5%
- Protection class: IP23
- Power factor (cosq): 0,8
- 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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